Ephemerides

P.P. 2465/7

ʼΟλύμπια Δώματα·

OR, AN

ALMANACK

For the YEAR of

OUR LORD GOD, 1790;

Being the Second after

BISSEXTILE, or LEAP-YEAR,

And from the World's Creation, 5794.

Wherein are Contained the Lunations, Conjunctions, Aſpects, and Effects of the Planets; the Increaſe, Decreaſe, and Length of the Days and Nights; with the Riſing, Southing, and Setting of the Planets and fixed Stars throughout the Year; whereby may be known the exact Hour of the Night at all Times, when either the Moon or Stars are ſeen.

Calculated according to Art, and referred to the Horizon of the ancient and renowned Borough Town of *Stamford* (formerly a famous Univerſity) whoſe Latitude is 52 Deg. 20 Min. fitting all the middle Counties of *ENGLAND*, and, without ſenſible Error, the whole Kingdom.

1790

46-6-24-96

BRITISH MUSEUM

79

Non eſt è Terris mollis ad Aſtra Via.

By TYCHO WING, *Philomath.*

LONDON:
Printed for the COMPANY of STATIONERS,
And ſold by ROBERT HORSFIELD, at their Hall, in Ludgate-Street.
[Price, ſtitched, NINE-PENCE.]

Common NOTES and Moveable FEASTS.

Dominical Letter	C	Septuageſima Sund.	Jan.	31
Golden Number	5	Shrove Sunday	Feb.	14
Epact	14	Eaſter Day	April	4
Cycle of the Sun	7	Whit-Sunday	May	23
Roman Indiction	8	Trinity Sunday	May	30
Number of Direction	14	Advent Sunday	Nov.	28

A CATALOGUE of the Moſt Reverend, Right Reverend, and Reverend, the Archbiſhops, Biſhops, and Deans, exerciſing Eccleſiaſtical Juriſdiction in England, 1790.

Archbiſhops.	*Deans Names.*	*Sees Names.*
Dr. John Moore	Dr. George Horne	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York
Biſhops.		
Dr. Beilby Porteus	Biſhop Pretyman	London
Dr. Thomas Thurlow	Hon. Dr. Wm. Digby	Durham
Hon. Dr. Br. North	Dr. Newton Ogle	Wincheſter
Sir Wm. Aſhburnham	Dr. Charles Harward	Chicheſter
Dr. Charles Moſs	Lord Fran. Seymour	Bath & Wells
Hon. Dr. S. Barrington	Dr. John Ekins	Saliſbury
Dr. John Hinchcliffe	Dr. Charles Tarrant	Peterborough
Hon. Dr. James Yorke	Dr. William Cooke	Ely
Dr. John Thomas	Dr. Thomas Dampier	Rocheſter
Dr. Richard Hurd	Hon. Dr. St. John	Worceſter
Dr. John Butler	Dr. Nat. Wetherell	Hereford
Dr. John Roſs	Dr. William Buller	Exeter
Dr. John Warren	Dr. Thomas Lloyd	Bangor
Hon. Dr J^s Cornwallis	Dr. Proby	Litchf. & Cov.
Dr. Samuel Hallifax	Dr. W. Shipley	St. Aſaph
Dr. Lewis Bagot	Dr. Philip Lloyd	Norwich
Dr. Richard Watſon	Mr. Potter, Archdeac.	Landaff
Dr. Edward Smalwell	Dr. Cyril Jackſon	Oxford
Dr. Chriſtoph. Wilſon	Dr. J. Hallam	Briſtol
Dr. Wm. Pretyman	Dr. Richard Kaye	Lincoln
Dr. John Douglas	Dr. Jeffery Ekins	Carliſle
Dr. William Cleaver	Dr. Cotton	Cheſter
Dr. Samuel Horſley	Mr. Wollaſton, Prec.	St. David's
Dr. Richard Beadon	Dr. Joſiah Tucker	Glouceſter
	Biſhop Thomas	Weſtminſter
	Biſhop Douglas	Windſor
Mr. Claudius Crigan		Sodor & Man

Law Terms &c.

A Table of Terms and Returns for the Year 1790.

Hilary Term begins January 23, ends February 12.

Returns or Eſſoign Days.		Exc.	Ret.	App.	W. D.
In eight Days of St. Hilary - -	Jan. 20	21	22	23	Saturd.
In fifteen Days of St. Hilary - -	27	28	29	30	Saturd.
On the Mor. of the Purif. of the Bl. V. M.	Feb. 3	4	5	6	Saturd.
In eight Days of the Purif. of the Bl. V. M.	9	10	11	12	Friday

Easter Term begins April 21, ends May 17.

In fifteen Days of Eaſter - -	April 18	19	20	21	Wedn.
From Eaſter Day in three Weeks -	25	26	27	28	Wedn.
From Eaſter Day in one Month -	May 2	3	4	5	Wedn.
From Eaſter Day in five Weeks -	9	10	11	12	Wedn.
On the Mor. of the Aſcenſion of the Lord -	14	15	16	17	Mond.

Trinity Term begins June 4, ends June 23.

On the Morrow of the Holy Trinity	May 31	J. 1	2	4	Friday
In eight Days of the Holy Trinity -	June 6	7	8	9	Wedn.
In fifteen Days of the Holy Trinity -	13	14	15	16	Wedn.
From the Day of the Holy Trinity in 3 Weeks	20	21	22	23	Wedn.

Michaelmas Term begins November 6, ends November 29.

On the Morrow of All Souls -	Nov. 3	4	5	6	Saturd.
On the Morrow of St. Martin -	12	13	14	15	Mond.
In eight Days of St. Martin - -	18	19	20	22	Mond.
In fifteen Days of St. Martin - -	25	26	27	29	Mond.

N. B. No Sittings in Weſtminſter-Hall on the Second of February, Aſcenſion-day, and Midſummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but Four Days.

Note, The firſt and laſt Days of every Term, are the firſt and laſt Days of Appearance.

The Names of the Learned Judges in the Law.

I. Rt. Hon. Lord Thurlow, Lord High Chancellor.

Right Hon. Sir Richard Pepper Arden, Knt. Maſter of the Rolls.

II. In the K. Bench. { Rt. Hon. Lord Kenyon, Lord Chief J. Sir Naſh Groſe, Knt.
Sir Wm. Henry Aſhurſt, Knt. Fran. Buller, Eſq.

III. In the Co. Pleas. { Rt. Hon. Al. Ld. Loughborough, L. C. J. Sir H. Gould, Knt.
John Heath, Eſq. Sir John Wilſon, Kt.

IV. In the Exchequer. { Sir James Eyre, Knt. L. C. B. Sir Alex. Thompſon, Kt.
Sir Beaumont Hotham, Knt. Sir Rich. Perryn, Kt.

Sir Arch. M'Donald, Knt. Att. Gen. Sir John Scott, Knt. Sol. Gen.

The REGAL Table.

The Year, Month, and Day, when each King and Queen began to reign, accounting the Year to begin *January* 1.		Length of each Reign.			Number of Years expired ſince their Reigns ended.	
Kings Names	began to reign	Y.	M.	D.	end	Kings Names
William I.	1066 Oct. 14	20	10	26	403	William 1
William II.	1087 Sept. 9	12	10	24	690	William 2
Henry I.	1100 Aug. 2	35	3	29	655	Henry 1
Stephen	1135 Dec. 1	18	10	24	636	Stephen
Henry II.	1154 Oct. 25	34	8	11	601	Henry 2
Richard I.	1189 July 6	9	9	0	591	Richard 1
John	1199 April 6	17	6	13	574	John
Henry III.	1216 Oct. 19	56	0	28	518	Henry 3
Edward I.	1272 Nov. 16	34	7	21	483	Edward 1
Edward II.	1307 July 7	19	6	18	463	Edward 2
Edward III.	1327 Jan. 25	50	4	27	413	Edward 3
Richard II.	1377 June 21	22	3	8	391	Richard 2
Henry IV.	1399 Sept. 29	13	5	20	377	Henry 4
Henry V.	1413 Mar. 20	9	5	11	368	Henry 5
Henry VI.	1422 Aug. 31	38	6	4	329	Henry 6
Edward IV.	1461 Mar. 4	22	1	5	307	Edward 4
Edward V.	1483 April 9	0	2	13	307	Edward 5
Richard III.	1483 June 22	2	2	0	305	Richard 3
Henry VII.	1485 Aug. 22	23	8	0	281	Henry 7
Henry VIII.	1509 April 22	37	9	6	243	Henry 8
Edward VI.	1547 Jan. 28	6	5	8	237	Edward 6
Q. Mary I.	1553 July 6	5	4	11	232	Q. Mary
Q. Elizabeth	1558 Nov. 17	44	4	7	187	Q. Elizabeth
James I.	1603 Mar. 24	22	0	3	165	James 1
Charles I.	1625 Mar. 27	23	10	3	141	Charles 1
Charles II.	1649 Jan. 30	36	0	7	105	Charles 2
James II.	1685 Feb. 6	4	0	7	101	James 2
Will. 3. & M.	1689 Feb. 13	13	0	23	88	William 3
Q. Anne	1702 Mar. 8	12	4	24	76	Q. Anne
George I.	1714 Aug. 1	12	10	10	63	K. George 1
George II.	1727 June 11	33	4	14	30	K. George 2
George III.	1760 Oct. 25	Crowned Sept. 22, 1761.				

The Uſe of the following TABLE *of the Moon's Southing, to find the Time of High-Water, and the Hour of the Night.*

I. To find the Time of High-Water in moſt Parts of ENGLAND.

Take the Time of the Moon's Southing for the Day propoſed, and to that add the Hours and Minutes which ſtand againſt the Place required in the following Table of Sea-Coaſts, and the Sum will be the Time of High-Water at the Place required on that Day.

A Table of the Sea Coaſts.	H.	M.
Portſmouth, Queenborough, Southampton,	0	00
Rocheſter, Wincheſea, Fluſhing,	0	45
Downs, Graveſend, Ramkins, Guernſey,	1	30
Denbeigh, Bell-Iſle, Holy-Iſle, Downs-Road,	2	15
London, Tinmouth, Whitby, Hartlepool,	3	00
Scarborough, Berwick, Fluſhing, Staples,	3	45
Flamborough, Humber, Bridlington-Bay,	4	30
Plymouth, Ramſay, Newcaſtle, Severn,	5	15
Lynn, Foſdyke, Hull, Weymouth, Dartmouth, Croſs-Keys,	6	00
Boſton, Start-Point, Foulneſs, Briſtol-Key,	6	45
Bridgewater, Milford Haven, Lizard, Wintertown,	7	30
Yarmouth, Iſle of Wight, the Needles,	8	15
Iſle of Man, Orkney, Pool, South-Foreland,	9	10
Dover, Harwich, Orfordneſs, Bullein,	10	10
Rye, Solebay, Margate-Road,	11	15

II. To find the Hour of the Night by the Shadow of the Moon on a Sun-Dial.

1. When the Shadow falls preciſely on the Hour 12, then the Time of the Moon's Southing, found in the preceding Table is the exact Time of Night. But in other Caſes,

2. If the Shadow wants of 12, ſee how much it wants of it; which Time, ſubtracted from that of the Moon's Southing, leaves the Time of Night. *Note*, You muſt add 12 Hours to the Moon's Southing, if Need be.

3. If the Shadow has paſt 12, add the Time that it has paſt it to the Time of the Moon's Southing; the Sum will be the Time of Night required; abating 12 Hours from that Sum, if Need be.

A TABLE of the MOON's SOUTHING, of excellent Uſe to

M	January		February		March		April		May		June		M
D	h	m	h	m	h	m	h	m	h	m	h	m	D
1	morn		1 m	0	morn		1 m	14	2 m	0	3 m	28	1
2	0	38	1	54	0	35	2	12	2	58	4	16	2
3	1	33	2	47	1	31	3	11	3	55	5	2	3
4	2	27	3	41	2	27	4	1[illegible]	4	48	5	46	4
5	3	19	4	35	3	23	5	6	5	38	6	29	5
6	4	10	5	29	4	20	5	59	6	25	7	11	6
7	5	1	6	24	5	16	6	50	7	9	7	54	7
8	5	52	7	19	6	11	7	38	7	52	8	37	8
9	6	44	8	13	7	5	8	23	8	34	9	21	9
10	7	38	9	5	7	56	9	6	9	16	10	8	10
11	8	33	9	55	8	45	9	49	9	59	10	57	11
12	9	28	10	43	9	32	10	31	10	4[illegible]	11	48	12
13	10	22	11	29	10	17	11	14	11	29	0 a	40	13
14	11	14	0 a	13	11	0	11	57	0 a	16	1	32	14
15	0 a	4	0	56	11	42	0 a	42	1	6	2	24	15
16	0	52	1	38	0 a	24	1	28	1	57	3	16	16
17	1	3	2	20	1	7	2	16	2	48	4	7	17
18	2	20	3	3	1	51	3	6	3	40	4	57	18
19	3	2	3	47	2	36	3	57	4	31	5	4[illegible]	19
20	3	44	4	32	3	22	4	49	5	22	6	38	20
21	4	26	5	20	4	11	5	41	6	13	7	31	21
22	5	9	6	10	5	2	6	33	7	4	8	26	22
23	5	53	7	3	5	54	7	25	7	56	9	23	23
24	6	40	7	57	6	47	8	17	8	50	10	21	24
25	7	30	8	52	7	41	9	10	9	45	11	19	25
26	8	22	9	48	8	35	10	5	10	43	morn		26
27	9	17	10	44	9	29	11	2	11	42	0	16	27
28	10	13	11	39	10	24	12	0	morn		1	10	28
29	11	9			11	20	morn		0	41	2	1	29
30	morn				morn		1	0	2	39	2	49	30
31	0	5			0	17			1	35			31

Spring Quarter begins	-	March 20d	9h	38m	morning.
Summer Quarter begins	-	June 21	7	40	morning.
Autumn Quarter begins	-	Sept. 22	9		afternoon.
Winter Quarter begins	-	Dec. 21	1	52	afternoon.

find the Time of High-Water, and the Hour of the Night

M D	July h	m	August h	m	September h	m	October h	m	November h	m	December h	m	M D
1	3 m	34	4 m	19	5 m	21	5 m	52	7 m	13	7 m	33	1
2	4	17	5	2	6	10	6	43	8	4	8	20	2
3	5	0	5	47	7	1	7	35	8	57	9	22	3
4	5	43	6	34	7	53	8	2[illegible]	9	51	10	20	4
5	6	26	7	23	8	46	9	21	10	47	11	19	5
6	7	10	8	14	9	39	10	14	11	45	0 a	20	6
7	7	56	9	6	10	33	11	9	0 a	46	1	20	7
8	8	44	9	59	11	2	0 a	6	1	48	2	17	8
9	9	34	10	53	0 a	22	1	4	2	48	3	11	9
10	10	26	11	47	1	18	2	3	3	45	4	1	10
11	11	10	0 a	41	2	14	3	3	4	40	4	49	11
12	0 a	12	1	34	3	12	4	2	5	31	5	34	12
13	1	5	2	27	4	9	5	0	6	18	6	17	13
14	1	57	3	21	5	6	5	55	7	3	6	59	14
15	2	49	4	15	6	3	6	47	7	47	7	41	15
16	3	40	5	10	6	58	7	36	8	30	8	25	16
17	4	31	6	6	7	51	8	22	9	12	9	10	17
18	5	23	7	3	8	41	9	6	9	55	9	56	18
19	6	17	7	59	9	2	9	49	10	39	10	43	19
20	7	12	8	53	10	15	10	32	11	24	11	32	20
21	8	8	9	45	10	59	11	15	morn		morn		21
22	9	5	10	35	11	43	11	59	0	11	0	22	22
23	10	1	11	23	morn		morn		0	59	1	12	23
24	10	56	morn		0	26	0	44	1	48	2	1	24
25	11	48	0	9	1	9	1	29	2	37	2	50	25
26	morn		0	53	1	53	2	16	3	27	3	39	26
27	0	38	1	36	2	38	3	4	4	16	4	28	27
28	1	25	2	1[illegible]	3	25	3	53	5	5	5	17	28
29	2	10	3	3	4	13	4	43	5	54	6	7	29
30	2	53	3	48	5	2	5	33	6	43	6	59	30
31	3	36	4	34			6	23			7	53	31

Venus is an Evening Star till March 18, and then a Morning Star for the reſt of the Year.

Jupiter is a Morning Star till February 14, then an Evening Star till September 3, and then a Morning Star for the reſt of the year.

January xxxi Days.

Lunations.			
Full Moon	1ſt day,	at 7	morning.
Laſt Quarter	8th day,	at 2	morning.
New Moon	15th day,	at 8	morning.
Firſt Quarter	23d day,	at 11	morning.
Full Moon	30th day,	at 7	night.

M D	Jupiter riſes	Venus ſets
1	8 a 14	8 a 11
7	7 47	8 21
13	7 18	8 31
19	6 48	8 39
25	6 19	8 45

M D	W D	Holy Days, ☉ riſes & ſets	☽ riſes & ſets	☽'s Longit.	☽'s Declin.	Aſpects and Weather
1	F	Circumciſion	☽ riſes	14 ♋ 4	18 n 31	Moderate for the ſeaſon.
2	S	☉ riſes 8h 4m	6 a 0	28 9	15 51	
3	C	2 S. af. Chriſt.	7 17	12 ♌ 27	12 13	☌ ☉ ☿ , ☍ ♃ ♀
4	M	*Old Chriſt. day*	8 36	26 51	7 51	☍ ♂ ♀
5	Tu		9 54	11 ♍ 16	3 2	Cold and unſettled
6	W	Epiphany	11 8	25 36	1 s 56	*T.w.D.* ✶ ♄ ☿
7	Th		morn	9 ♎ 49	6 45	Weather various perhaps ſnow.
8	F	*Lucian*	0 29	23 53	11 10	
9	S		1 46	7 ♏ 47	14 56	✶ ☉ ♄
10	C	1 S. aft. Epiph.	3 0	21 31	17 48	More moderate.
11	M	*Plow Monday*	4 10	5 ♐ 5	19 39	Snow or rain.
12	Tu	*O. New Y. day*	5 12	18 30	20 21	
13	W	Cam. T. begins	6 5	1 ♑ 45	19 55	*St. Hilary*
14	Th	Oxf. T. begins	6 49	14 48	18 24	Some rain about this time.
15	F		☽ ſets	27 39	15 59	
16	S	☉ ſets 4h 10	5 a 56	10 ♒ 18	12 32	☌ ♃ ♂
17	C	2 S. af. Epiph	7 3	22 43	9 14	*Old Twelfth-d.*
18	M	Q. Ch. b. d. kep	8 7	4 ♓ 55	5 17	*Priſca*
19	Tu		9 12	16 57	1 11	Some rain about this time
20	W	*Fabian*	10 17	28 50	2 n 55	Seaſonable weather.
21	Th	*Agnes*	11 20	10 ♈ 39	6 54	
22	F	*Vincent*	morn	22 28	10 37	
23	S	Hil. Ter. beg.	0 24	4 ♉ 22	13 56	☌ ♄ ♀
24	C	3 S. af. Epiph.	1 26	16 27	16 43	Windy, cold and ſnowy weather and likely to continue to the end.
25	M	Conv. St. Paul	2 29	28 49	18 4	
26	Tu	☉ riſes 7h 36m	3 30	11 ♊ 33	20 1	
27	W	Ps. Aug. Fr. b.	4 26	24 41	20 11	
28	Th		5 18	8 ♋ 17	19 13	
29	F	☉ ſets 4h 29m	6 2	22 20	17 3	☍ ♂ ☿
30	S	K. Cha. I. mart.	☽ riſes	6 ♌ 46	13 48	☍ ♃ ☿
31	C	Septuageſi. S.	6 a 4	21 29	9 39	Cold ſtorms.

M D	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin	Longit.	Declin.	Longit.	Declin.
1	18 ♓ 10	6 s 39	0 ♍ 56	12 n 8	1 ♍ 59	14 n 5	28 ♒ 30	13 s 6
7	18 38	6 27	0 35	12 17	1 46	14 23	4 40	10 24
13	19 8	6 14	0 7	12 28	1 3	14 50	10 35	7 38
19	19 40	6 1	29 34	12 41	28 51	15 26	16 10	4 51
25	20 15	5 46	28 55	12 56	29 14	16 10	21 22	2 5

M D	☉'s Longit	☉'s Declin.	Obſervations			
1	11 ♑ 23	22 s 59	Pole Star ſouth at	5	56	aftern.
2	12 24	22 53	Seven Stars ſouth at	8	39	aftern.
C	13 25	22 47	Saturn ſets at	9	50	aftern.
4	14 26	22 41	Mars riſes at	7	58	aftern.
5	15 27	22 34				
6	16 28	22 27	Day breaks at	5	57	
7	17 30	22 19	Length of day is	8	0	
8	18 31	22 11	Length of night is	15	58	
9	19 32	22 2	Twilight ends at	6	9	
C	20 33	21 53				
11	21 34	21 44	Day is increaſed	0	24	
12	22 35	21 34	Sun due eaſt at	4	47	
13	23 37	21 24	Pole Star ſouth at	5	4	aftern.
14	24 38	21 13	Seven Stars ſouth at	7	46	aftern.
15	25 39	21 2				
16	26 4	20 51	Saturn ſets at	9	1	aftern.
C	27 41	20 39	Mars riſes at	6	52	aftern.
18	28 42	20 26	Day breaks at	5	47	
19	29 43	20 13	☉ enters ♒ at	6	24	aftern.
	0 ♒ 44	20 4				
21	1 45	19 47	Length of day is	8	32	
22	2 4	19 3	Length of night is	15	24	
23	3 47	19 1	Twilight ends at	6	19	
C	4 4	19 5	Day is increaſed	0	58	
25	5 49	18 50				
26	6 50	18 35	Sun due eaſt at	4	57	
27	7 51	18 19	Pole Star ſouth at	4	5	aftern.
28	8 52	18 4	Seven Stars ſouth at	6	47	aftern.
29	9 53	17 47	Saturn ſets at	8	12	aftern.
30	10 54	17 31				
C	11 55	17 14				

February xxviii Days.

Lunations.			
Laſt Quarter	6th day,	at	11 morning.
New Moon	14th day,	at	1 morning.
Firſt Quarter	22d day,	at	6 morning.

M. D.	Jupiter riſes	Venus ſets
1	5 a 46	8 a 51
7	5 18	8 52
13	4 49	8 48
19	ſets	8 40
25	6 m 3	8 25

M D	W D	Holy Days, ☉ riſes & ſets	☽ riſes & ſets	☽'s Longit.	☽'s Declin.	Aſpects and Weather
1	M		7 a 26	6 ♍ 21	4 n 52	Stormy and unſettled weather begins the month and continues windy and unconſtant with drizling rain and ſleet till about the middle of the month.
2	Tu	Purif. Can. day	8 48	21 13	0 s 13	
3	W	*Blaſe*	10 8	5 ♎ 56	5 14	
4	Th		11 29	20 20	9 53	
5	F	*Agatha*	morn	4 ♏ 38	13 53	
6	S		0 44	18 31	17 1	
7	C	Sexageſima S.	1 56	2 ♐ 8	19 6	
8	M		3 0	15 27	20 5	
9	Tu	☉ riſes 7h 12m	3 56	28 33	19 57	
10	W	☉ ſets 4h 50m	4 43	11 ♑ 27	18 46	☍ ☉ ♂
11	Th		5 22	24 9	16 40	
12	F	Hil. T. ends	5 53	6 ♒ 41	13 49	
13	S	*Old Cand. day*	6 18	19 3	10 24	
14	C	Quinq. Shro. S.	☽ ſets	1 ♓ 16	6 35	*Valentine* ☍ ☉ ♃
15	M		6 a 56	13 20	2 33	
16	Tu	Shrove Tueſd.	8 2	25 16	1 n 32	Then moderate and ſeaſonable.
17	W	Aſh-Wedneſ.	9 5	7 ♈ 7	5 32	
18	Th		10 10	18 54	9 18	
19	F	☉ ſets 5h 7m	11 13	0 ♉ 42	12 43	☌ ☉ ☿
20	S		morn	12 34	15 38	
21	C	1 Sun. in Lent	0 14	24 37	17 55	Cold ſtorms at hand.
22	M		1 14	6 ♊ 55	19 25	
23	Tu	☉ riſes 6h 46m	2 13	19 34	20 0	
24	W	St. Matthias. [Emb. W.	3 8	2 ♋ 38	19 32	Pr. Ad. Fred. b.
25	Th		3 53	16 11	17 58	Cold ſnowy and wet.
26	F		4 33	0 ♌ 14	15 17	
27	S	☉ ſets 5h 22m	5 9	14 45	11 35	☍ ♃ ☿
28	C	2 Sun. in Lent	5 39	29 38	7 5	

M D	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	20♓59	5 s 29	28♌ 5	13 n 15	25♌ 51	17 n 8	26♓ 45	1 n 1
7	21 38	5 13	27 19	13 31	23 33	17 58	0 39	3 28
13	22 18	4 56	26 32	13 48	21 10	18 44	3 43	5 40
19	23 0	4 39	25 44	14 5	18 51	9 25	5 44	7 29
25	23 42	4 22	24 58	14 21	16 46	19 56	6 29	8 46

M D	☉'s Longit.	☉'s Declin.	Obſervations			
1	12♒55	16 s 57	Mars riſes at	5	20	aftern.
2	13 56	16 40	Day breaks at	5	29	
3	14 57	16 22	Length of day is	9	14	
4	15 58	16 4	Length of night is	14	42	
5	16 59	15 46				
6	17 59	15 27	Day is increaſed	1	40	
C	19 0	15 8	Twilight ends at	6	38	
8	20 1	14 49	Sun due eaſt at	5	11	
9	21 1	14 30	Pole Star ſouth at	3	13	aftern.
10	22 2	14 11				
11	23 3	13 51	Seven Stars ſouth at	5	51	aftern.
12	24 3	13 31	Saturn ſets at	7	28	aftern.
13	25 4	13 11	Mars ſets at	7	30	morn.
C	26 4	12 50	Day breaks at	5	10	
15	27 5	12 30	Length of day is	9	58	
16	28 6	12 9				
17	29 6	11 48	Length of night is	13	54	
18	0♓ 6	11 27	☉ enters ♓ at	9	14	morn.
19	1 7	11 5	Day is increaſed	2	30	
20	2 7	10 44	Twilight ends at	7	1	
C	3 8	10 22				
22	4 8	10 0	Sun due eaſt at	5	27	
23	5 8	9 38	Pole Star ſouth at	2	16	aftern.
24	6 9	9 16	Seven Stars ſouth at	5	2	aftern.
25	7 9	8 54	Saturn ſets at	6	47	aftern.
26	8 9	8 31				
27	9 9	8 9	Mars ſets at	6	27	morn.
C	10 9	7 46	Day breaks at	4	45	

March xxxi Days.

Lunations.

Full Moon 1ſt day, at 6 morning.
Laſt Quarter 7th day, at 10 evening.
New Moon 15th day, at 7 evening.
Firſt Quarter 23d day, at 10 evening.
Full Moon 30th day, at [illegible] afternoon.

M D	Jupiter ſets	Venus ſets
1	6m 16	[illegible] a 11
7	5 52	7 41
13	5 29	7 4
19	5 7	riſes
25	4 4	[illegible]m 35

M D	W D	Holy Days, ☉ riſes & ſets	☽ riſes & ſets	☽'s Longit.	☽'s Decl. in	Aſpects and Weather
1	M	*David*	☽ riſes	14 ♍ 40	2 n	Cold, wet or ſnowy weather begin the month.
2	Tu	*Chad*	7 a 45	29 58	3 s 6	
3	W		9 7	13 ♎ 3	8 3	
4	Th	☉ riſes 6h 28m	10 27	29 54	12 20	
5	F	☉ ſets 5h 34m	11 44	14 ♏ 23	15 5	Windy.
6	S		morn	28 29	18 2	
7	C	3 Sun. in Lent	0 52	12 ♐ 11	19 42	*Perpetua*
8	M		1 52	25 30	19 50	☍ ♃ ☿
9	Tu	☉ riſes 6h 18m	2 43	8 ♑ 30	18 55	Unſettled weather.
10	W	☉ ſets 5h 44m	3 24	21 12	17 3	
11	Th		4 [illegible]	3 ♒ 41	14 25	
12	F	*Gregory M.*	4 28	15 59	11 11	Seaſonable but not without ſtorms.
13	S		4 54	28 7	7 32	
14	C	Midlent Sun.	5 1	10 ♓ 8	3 3	
15	M	☉ riſes 6h 6m	☽ ſets	22 4	0 n 24	☌ ☉ ♄
16	Tu		7 a 1	3 ♈ 55	4 23	
17	W	*St Patrick*	8 5	15 43	8 12	☌ ☉ ♀
18	Th	*Edm. K. W. S.*	9 9	27 31	11 42	
19	F		10 12	9 ♉ 20	14 44	
20	S	☉ ſets 6h 4m	11 12	21 16	17 10	
21	C	5 S. in Lent.	morn	3 ♊ 20	18 52	*Benedict.* ☌ ♄ ♀
22	M		0 10	15 3	19 43	
23	Tu	☉ riſes 5h 50m	1 4	28 14	19 30	Seaſonable with ſome ſhowers.
24	W		1 52	11 ♋ 13	18 28	
25	Th	Lady Day	2 34	24 38	16 18	
26	F	Cam. T. ends	3 10	8 ♌ 32	13 8	
27	S	Oxf. T. ends	3 42	22 54	9 5	Ends with ſeaſonable weather.
28	C	Palm Sunday	4 12	7 ♍ 40	4 24	
29	M		4 42	22 46	0 s 40	
30	Tu	☉ ſets 6h 23m	☽ riſes	8 ♎ 1	5 45	
31	W		8 a 6	23 15	10 23	

M D	Saturn Longit.		Saturn Declin.		Jupiter Long.		Jupiter Declin.		Mars Longit.		Mars Declin.		Venus Longit.		Venus Declin.	
1	24♓	12	4 s	10	24♌	28	14 n	37	15♌	34	20 n	12	♈	10	9 n	15
7	24	57	3	53	23	4[illegible]	14	4[illegible]	14	7	20	26	4	27	[illegible]	17
13	25	41	3	35	23	8	14	[illegible]7	13	6	20	3[illegible]	1	2[illegible]	8	2[illegible]
19	26	26	3	18	22	34	15	8	12	34	20	2[illegible]	7	44	6	54
25	27	10	3	0	22	7	15	17	12	30	20	15	24	13	4	47

M D	☉'s Longit.		☉'s Declin.		Obſervations			
1	11♓	9	7 s	23		h.	m.	
2	12	9	7	0	Length of day is	10	56	
3	13	9	6	37	Length of night is	13	0	
4	14	9	6	14	Day is increaſed	3	22	
5	15	9	5	51	Twilight ends at	7	26	
6	16	9	5	28				
C	17	9	5	5	Duration of twilight	1	52	
8	18	9	4	41	Sun due eaſt at	5	44	
9	19	9	4	18	Pole Star ſouth at	1	25	aftern.
10	20	9	3	54	Seven Stars ſouth at	4	11	aftern.
11	21	9	3	31				
12	22	8	3	7	Saturn ſets at	6	2	aftern.
13	23	8	2	44	Mars ſets at	5	27	morn.
C	24	8	2	20	Day breaks at	4	15	
15	25	7	1	56	Length of day is	11	48	
16	26	7	1	32				
17	27	7	1	0	Length of night is	12	4	
18	28	6	0	45	Equal day and night			
19	29	6	0	21	Day is increaſed	4	29	
20	0♈	5	0 n	2	☉ enters ♈ at	9	38	morn.
C	1	5	0	26				
2	2	4	0	50	Twilight ends at	8	2	
23	3	4	1	13	Durat. of twilight	1	55	
24	4	3	1	37	Sun due eaſt at	6	5	
25	5	2	2	0	Pole Star ſouth at	0	30	aftern.
26	6	2	2	24				
27	7	1	2	47	Seven Stars ſouth at	3	8	aftern.
C	8	0	3	11	Saturn riſes at	5	52	morn.
29	8	59	3	34	Mars ſets at	4	20	morn.
30	9	58	3	57	Day breaks at	3	40	
31	10	57	4	21				

April xxx Days.

Lunations.

Laſt Quarter 6th day, at 10 morning
New Moon 14th day, at 12 noon
Firſt Quarter 22d day, at 9 morning
Full Moon 28th day, at 12 night

M D	Jupiter ſets	Venus riſes
1	4 m 18	5 m 13
7	3 55	4 59
13	3 33	4 46
19	3 11	4 36
25	2 48	4 25

M D	W D	Holy Days, ☉ riſes & ſets	☽ riſes & ſets	☽'s Longit.	☽'s Declin.	Aſpects and Weather
1	TH	*Maundy Thurſ.*	9 a 20	8 ♏ 19	14 s 28	Moderate.
2	F	Good Friday	10 41	23 4	17 26	△ ☉ ♂
3	S	*RichardBp.Chi.*	11 49	7 ♐ 25	19 12	☌ ♀ ☿
4	C	Eaſter Day	morn	21 19	19 44	*St. Ambroſe*
5	M	Eaſter Monday	0 45	4 ♑ 47	19 6	Old Lady Day
6	TU	Eaſter Tueſday	1 30	17 50	17 27	Storms may be
7	W		2 8	0 ♒ 33	15 0	expected.
8	TH	☉ riſes 5h 19m	2 39	12 57	11 55	☌ ♄ ☿
9	F	☉ ſets 6h 43m	3 4	25 8	8 22	
10	S		3 28	7 ♓ 8	4 32	
11	C	Low Sunday	3 50	19 2	0 34	△ ☉ ♃
12	M		4 11	0 ♈ 52	3 n 24	
13	TU		4 34	12 40	7 15	Cool weather and
14	W	Ox.&Ca.T.be.	☽ ſets	24 29	10 49	cloudy, with ſome
15	TH		8 a 12	6 ♉ 20	13 58	ſtorms.
16	F	☉ riſes 5h 4m	9 14	18 16	16 34	
17	S	☉ ſets 6h 58m	10 13	0 ♊ 20	18 27	
18	C	2 S. aft. Eaſter	11 8	12 33	19 30	△ ♂ ☿
19	M	*Alphege*	11 57	24 59	19 38	
20	TU		morn	7 ♋ 40	18 47	△ ♃ ☿
21	W	Eaſter T. beg.	0 40	20 40	16 56	
22	TH		1 17	4 ♌ 1	14 9	More moderate
23	F	St. George	1 49	17 46	10 32	and ſeaſonable
24	S		2 18	1 ♍ 54	6 13	
25	C	3 S. a. Eaſt. St.	2 46	16 24	1 26	Prs. Mary born
26	M	[Mark	3 13	1 ♎ 13	3 s 32	
27	TU	☉ riſes 4h 45m	3 44	16 14	8 22	towards the end.
28	W		☽ riſes	1 ♏ 20	12 42	
29	TH	☉ ſets 7h 20m	8 a 22	16 21	16 11	☌ ☉ ☿
30	F		9 34	1 ♐ 9	18 32	

M D	Saturn Longit.	Saturn Declin.	Jupiter Longit.	Jupiter Declin.	Mars Longit.	Mars Declin.	Venus Longit.	Venus Declin.
1	28 ♓ 2	2 s 40	21 ♌ 41	15 n 24	12 ♌ 58	19 n 51	21 ♓ 17	2 n 26
7	28 45	2 23	21 2	15 28	13 4	19 24	0 15	0 49
13	29 28	2 7	21 20	15 30	14 56	18 52	20 42	0 s 12
19	0 9	1 51	21 19	15 30	16 23	18 14	22 24	0 39
25	0 4	1 36	21 25	15 27	18 7	17 31	25 9	0 34

M D	☉'s Longit.	☉'s Declin.	Obſervations	h.	m.	
1	11 ♈ 50	4 n 44				
2	12 55	5 7	Length of day is	12	58	
3	13 54	5 30	Length of night is	10	58	
C	14 53	5 53	Day is increaſed	5	22	
5	15 52	6 15	Twilight ends at	8	47	
6	16 51	6 38				
7	17 50	7 0	Durat. of twilight	2	4	
8	18 49	7 23	Sun due eaſt at	6	24	
9	19 48	7 45	Pole Star ſouth at	11	31	morn.
10	20 46	8 7	Seven Stars ſouth at	2	13	aftern.
C	21 45	8 29				
12	22 44	8 51	Saturn riſes at	4	42	morn.
13	23 43	9 13	Mars ſets at	3	30	morn.
14	24 41	9 35	☉ eclipſed, inviſible			
15	25 40	9 56	Day breaks at			
16	26 39	10 17				
17	27 37	10 38	Length of day is	13	56	
C	28 36	10 59	Length of night is	10	0	
19	29 34	11 20	Day is increaſed	6	20	
20	0 ♉ 33	11 41	☉ enters ♉ at	10	23	aftern.
21	1 31	12 1				
22	2 29	12 21	Twilight ends at	9	25	
23	3 28	12 41	Durat. of twilight	2	18	
24	4 26	13 1	Sun due eaſt at	6	42	
C	5 24	13 20	Pole Star ſouth at	10	35	morn.
26	6 23	13 40				
27	7 21	13 59	Seven Stars ſouth at	1	13	aftern.
28	8 19	14 18	☾ eclipſed, viſible			
29	9 17	14 36	Saturn riſes at	3	41	morn.
30	10 15	14 55	Mars ſets at	2	35	morn.

May xxxi Days.

Lunations.

Laſt Quarter 6th day, at 2 morning.
New Moon 14th day, at 5 morning.
Firſt Quarter 21ſt day, at 5 afternoon.
Full Moon 28th day, at 8 morning.

M D	Jupiter ſets	Venus riſes
1	2 m 26	4 m 14
7	2 3	3 4
13	1 41	2 53
19	1 18	2 41
25	0 55	2 30

M D	W D	Holy Days, ☉ riſes & ſets	☽ riſes & ſets	☽'s Longit.	☽'s Declin.	Aſpects and Weather
1	S	St. Phil. & Jam.	10 a 37	15 ♐ 37	19 s 37	Moderate at the
2	C	4 Sun. af. Eaſt.	11 30	29 4	19 26	beginning of the
3	M	*Inv. of the Croſ*	morn	13 ♑ 17	18 6	month.
4	Tu		0 11	26 28	15 50	
5	W	☉ riſes 4h 29m	0 46	9 ♒ 15	12 51	☌ ♄ ♀, □ ♃ ☿, }
6	Th	*. Ev. a. P.L*	1 14	21 42	9 22	□ ♂ ☿ }
7	F		1 37	3 ♓ 52	5 35	☌ ♃ ♂
8	S		2 1	15 51	1 37	Some wet about this time.
9	C	Rogation Sun.	2 21	27 42	2 n 22	
10	M	☉ ſets 7h 39m	2 43	9 ♈ 29	6 15	* ♄ ☿
11	Tu		3 5	21 18	9 54	
12	W	*Old May Day*	3 29	3 ♉ 10	13 11	* ♀ ☿
13	Th	Aſc. Holy Th.	3 58	15 8	15 57	□ ☉ ♃
14	F	☉ riſes 4h 15m	☽ ſets	27 15	18 3	
15	S		9 a 6	9 ♊ 32	19 2	
16	C	S. aft. Aſcen.	9 56	22 0	19 42	□ ☉ ♂
17	M	Eaſter T. ends	10 42	4 ♋ 42	19 5	Indifferent good
18	Tu		11 21	17 37	17 29	weather,
19	W	Q. Charl. born	11 54	0 ♌ 48	14 56	*Dunſtan*
20	Th	Oxf. T. ends	morn	14 14	11 33	
21	F		0 23	27 57	7 30	and continues to the
22	S	Prs. Eliza. bo.	0 50	11 ♍ 56	2	end.
23	C	Whit Sunday	1 17	26 11	1 s 50	
24	M	Whit Monday	1 44	10 ♎ 40	6	* ☉ ♄
25	Tu	Whit Tueſday	2 13	25 19	11 3	
26	W	Ember Week	2 44	10 ♏ 3	14 51	*Auguſtin Abp.*
27	Th	*Ven. Bede*	3 23	24 46	17 41	
28	F		☽ riſes	9 ♐ 22	19	* ♃ ☿
29	S	K. Cha. II. reſt.	9 a 17	23 43	19 42	* ♂ ☿
30	C	Trinity Sund.	10 4	7 ♑ 45	18 49	
31	M		10 43	21 24	16 52	△ ♃ ♀

M D	Saturn		Jupiter		Mars		Venus	
	Long.	Declin.	Long.	Declin.	Long.	Declin.	Long.	Declin.
1	1 28	1 s 21	21 38	15 n 22	20 6	16 n 44	28 44	0 0
7	2 5	1 8	21 56	15 15	22 17	15 52	3 0	0 57
13	2 40	0 55	22 21	15 6	24 38	14 56	7 48	2 14
19	3 12	0 43	22 51	14 56	27 10	13 56	12 59	3 46
25	3 43	0 32	23 27	14 43	29 50	12 52	18 31	5 30

M D	Sun's Longit.	Sun's Declin.	Obſervations	h.	m.	
1	11 ♉ 13	15 n 13				
C	12 12	15 31	Day breaks at	2	4	
3	13 10	15 48	Length of day is	14	54	
4	14 8	16 6	Length of night is	9	2	
5	15 6	16 23	Day is increaſed	7	19	
6	16 4	16 40				
7	17 2	16 56	Twilight ends at	10	18	
8	18 0	17 13	Durat. of Twilight	2	49	
C	18 57	17 29	Sun due Eaſt at	6	58	
10	19 55	17 44	Pole Star ſouth, at	9	38	Morn.
11	20 53	18 0				
12	21 51	18 15	Seven Stars ſouth at	0	16	Aftern.
13	22 49	18 30	Saturn riſes at	2	49	Morn.
14	23 47	18 44	Sun eclipſed, inviſible			
15	24 45	18 59	Mars ſets at	1	43	Morn.
C	25 42	19 12				
17	26 40	19 26	Day breaks at	1	1	
18	27 38	19 39	Length of day	15	42	
19	28 35	19 52	Length of night	8	16	
20	29 33	20 5	Sun enters ♊ at	10	58	Aftern.
21	0 ♊ 31	20 17				
22	1 28	20 29	Day is increaſed	8	9	
C	2 26	20 40	Pole Star ſouth at	8	47	Morn.
24	3 24	20 51	Seven Stars ſouth at	11	29	Morn.
25	4 21	21 2	Sun due Eaſt at	7	11	
26	5 19	21 13				
27	6 16	21 23	No real Night, but			
28	7 14	21 32	All Day or Twilight, till July 24.			
29	8 11	21 42				
C	9 9	21 51				
31	10 6	21 59				

Lunations

Laſt Quarter the 4th day, at 4 afternoon
New Moon the 12th day, at 6 evening
Firſt Quarter the 19th day, at 10 night
Full Moon the 26th day, at 5 afternoon

M D	Jupiter ſets	Venus riſes
1	0m 28	2m 16
7	0 5	2 4
13	11 a 42	1 53
19	11 18	1 43
25	10 56	1 33

M D	W D	Holy Days Sun riſes & ſets	☽ riſes & ſets	Moon's Longit.	Moon's Declin.	Aſpects and Weather
1	T	Nicomede	11 a 13	4 ♒ 38	14 s 4	□ ♄ ☿
2	W	Oxf. T. beg.	11 39	17 25	10 41	Variable.
3	T	CorpusChriſti	morn	29 58	6 54	
4	F	K. G. III. b.	0 3	12 ♓ 10	2 56	Trin. T. begins
5	S	Pr. Er. Au. b.	0 24	24 9	1 n 6	Boniface
6	C	1 S. aft. Trin.	0 45	6 ♈ 1	5 3	
7	M		1 8	17 49	8 48	
8	T	☉ riſes 3 47	1 31	29 39	12 13	Thunder with
9	W	☉ ſets 8 14	1 56	11 ♉ 35	15 10	Rain or Hail in
10	T		2 27	23 41	17 30	many Places.
11	F	St. Barnabas.	3 3	6 ♊ 0	19 4	
12	S		☽ ſets	18 33	19 44	
13	C	2 S. aft. Trin.	8 a 37	1 ♋ 21	19 24	✱ ♂ ☿
14	M		9 19	14 24	18 3	✱ ♀ ☿
15	T	☉ riſes 3 44	9 54	27 42	15 43	
16	W		10 25	11 ♌ 12	12 30	△ ♂ ♀
17	T	St. Alban.	10 53	24 53	8 34	✱ ☉ ♃
18	F		11 18	8 ♍ 45	4 9	
19	S	☉ ſets 8 16	11 43	22 45	0 s 32	
20	C	3 S. aft. Trin.	morn	6 ♎ 52	5 14	T. Ed. R. W. S
21	M	Longeſt Day	0 9	21 5	9 42	Moderate.
22	T		0 39	5 ♏ 23	13 38	
23	W	Trin. T. ends	1 14	19 43	16 45	□ ♄ ☿
24	T	Nativ. J. Bap.	1 54	4 ♐ 1	18 50	Midſummer
25	F		2 43	18 14	19 43	☌ ☉ ☿
26	S	☉ riſes 3 44	☽ riſes	2 ♑ 16	19 21	
27	C	4 S. aft. Trin.	8 a 33	16 4	17 50	□ ☉ ♄
28	M		9 8	29 33	15 21	
29	T	St. Peter	9 36	12 ♒ 42	12 9	Unſettled Wea-
30	W	☉ ſets 8 15	9 59	25 31	8 28	ther.

June, 1790.

M	Saturn		Jupiter		Mars		Venus	
D	Long.	Decl.	Long.	Declin.	Long.	Decl.	Long.	Declin.
1	4 15	0 s 21	24 15	14 n 26	3 7	11 n 33	25 18	7 n 41
7	4 39	0 13	25 2	14 10	6 4	10 22	1 20	9 37
13	5 1	0 6	25 52	13 53	9 6	9 7	7 33	11 35
19	5 19	0 0	26 47	13 33	12 14	7 49	13 55	13 30
25	5 34	0 n 5	27 45	13 13	15 28	6 28	20 23	15

M D	Sun's Longit.	Sun's Declin.	Obſervations			
1	11 ♊ 3	22 n 8		h.	m.	
2	12 1	22 15	Saturn riſes at	1	32	Morn.
3	12 58	22 23	Mars ſets at	0	40	Morn.
4	13 56	22 30	Length of day is	16	20	
5	14 53	22 36	Length of night is	7	38	
C	15 50	22 43				
7	16 48	22 49	Day is increaſed	8	40	
8	17 45	22 54	Sun due Eaſt at	7	18	
9	18 42	22 59	No real night, but			
10	19 40	23 4	All day or twilight.			
11	20 37	23 8				
12	21 34	23 12	Pole Star ſouth at	7	26	Morn.
C	22 32	23 15	Seven Stars ſouth at	10	8	Morn.
14	23 29	23 18	Saturn riſes at	0	45	Morn.
15	24 26	23 21	Mars ſets at	12	0	Midn.
16	25 24	23 23				
17	26 21	23 25	Length of day	16	34	
18	27 18	23 26	Length of night is	7	26	
19	28 15	23 27	Day is increaſed	8	50	
C	29 13	23 28				
21	0 ♋ 10	23 28	Sun enters ♋ at	7	40	Morn.
22	1 7	23 28	Days begins to decreaſe			
23	2 4	23 27	No real night, but			
24	3 1	23 26	All day or twilight.			
25	3 59	23 24				
26	4 56	23 22	Sun due Eaſt at	7	20	
C	5 53	23 20	Day is decreaſed	0	2	
28	6 50	23 17	Pole Star ſouth at	6	20	Morn.
29	7 47	23 14	Seven Stars ſouth at	9	2	Morn.
30	8 45	23 11				

JULY xxxi Days.

Lunations

Laſt quarter the 4th day, at 9 morning
New Moon the 12th day, at 5 morning
Firſt Quarter the 19th day, at 3 morning
Full Moon the 26th day, at 3 morning

M D	Jupiter ſets	Venus riſes
1	10 a 33	1 m 24
7	10 10	1 18
13	9 48	1 14
19	9 26	1 12
25	9 4	1 12

M D	W D	Holy-Days Sun riſes & ſets	☽ riſes & ſets	Moon's Longit.	Moon's Declin.	Aſpects and Weather
1	T	Sun riſes 3 46	10 a 22	7 ♓ 59	4 s 29	
2	F	Viſit. V. M.	10 43	20 12	0 25	□ ♃ ♀
3	S	Dog-Da. beg.	11 5	2 ♈ 11	3 n 36	Changeable.
4	C	5 S. aft. Trin.	11 29	14 2	7 27	Tra. St. Mart.
5	M	Old Midſ. d.	11 53	25 51	11 0	Perhaps ſome
6	T	Camb. com.	morn	7 ♉ 43	14 7	thunder ſtorms.
7	W	Tho. a Becket	0 22	19 42	16 41	
8	T		0 56	1 ♊ 55	18 32	✱ ♃ ☿
9	F	C. T. ends.	1 36	14 23	19 32	✱ ♄ ♀
10	S		2 24	27 10	19 35	
11	C	6 S. aft. Trin.	3 21	10 ♋ 17	18 36	
12	M	Oxford Act	☽ ſets	23 42	16 33	Variable.
13	T		8 a 23	7 ♌ 24	13 34	
14	W	Sun ſets 8 4	8 51	21 20	9 47	
15	T	Swithin	9 19	5 ♍ 24	5 25	
16	F		9 45	19 34	0 41	
17	S	Oxf. T. ends	10 11	3 ♎ 45	4 s 1	
18	C	7 S. aft. Trin.	10 39	17 55	8 32	□ ♄ ☿
19	M		11 11	2 ♏ 3	12 34	
20	T	Margaret	11 49	16 7	15 52	
21	W		m rn	0 ♐ 7	18 23	Some wet and
22	T	Magdalen	0 33	14 2	19 28	the Weather un-
23	F		1 26	27 49	19 31	ſettled.
24	S		2 26	11 ♑ 28	18 26	
25	C	8 S. aft. Trin.	3 32	24 54	16 20	St. James ☉ ♂
26	M	St. Anne.	☽ riſes	8 ♒ 5	13 26	
27	T		8 a 0	21 1	9 56	
28	W	Sun riſes 4 14	8 25	3 ♓ 39	6 3	△ ☉ ♄
29	T		8 47	16 2	2 0	
30	F	Sun ſets 7 43	9 9	28 10	2 n 3	
31	S		9 31	10 ♈ 8	5 59	

M	Saturn		Jupiter		Mars		Venus	
D	Long.	Decl	Long.	Decl.	Long	Decl.	Long.	Decl.
1	5 45	0 n 8	28 46	12 n 52	18 46	5 n 5	26 58	17 n 2
7	5 53	0 9	29 50	12 29	22 9	3 40	3 39	18 34
13	5 57	0 9	0 57	12 5	25 36	2 13	10 24	19 52
19	5 58	0 8	2 6	11 40	29 7	0 44	17 14	20 55
25	5 55	0 6	3 17	11 14	2 42	0 s 47	24 7	21 40

M D	Sun's Longit.		Sun's Declin.		Obſervations			
1	9♋	42	23 n	7		h.	m.	
2	10	39	23	2	Saturn riſes at	11	33	Aftern.
3	11	36	22	57	Mars ſets at	11	0	Aftern.
C	12	33	22	52	Length of day is	16	26	
5	13	31	22	47	Length of night is	7	36	
6	14	28	22	41				
7	15	25	22	34	Day is decreaſed	0	12	
8	16	22	22	28	Sun due Eaſt at	7	18	
9	17	19	22	20	No real night, but			
10	18	17	22	13	All day or twilight.			
C	19	14	22	5				
12	20	11	21	57	Pole Star ſouth at	5	22	Morn.
13	21	8	21	48	Seven Stars ſouth at	8	4	Morn.
14	22	6	21	39	Saturn riſes at	10	43	Aftern.
15	23	3	21	30	Mars ſets at	10	21	Aftern.
16	24	0	21	20				
17	24	58	21	10	Length of day is	16	2	
C	25	55	20	59	Length of night is	8	0	
19	26	52	20	48	Day is decreaſed	0	36	
20	27	49	20	37	Sun due Eaſt at	7	10	
21	28	47	20	25				
22	29	44	20	14	Sun enters ♌ at	6	30	Aftern.
23	0♌	41	20	1	Pole Star ſouth at	4	34	Morn.
24	1	39	19	49	Seven Stars ſouth at	7	16	Morn.
C	2	36	19	36	Saturn riſes at	9	59	Aftern.
26	3	33	19	23				
27	4	31	19	9	Mars ſets at	9	44	Aftern.
28	5	28	18	55	Day breaks at	0	56	
29	6	25	18	4[illegible]	Length of day	15	30	
30	7	23	18	2[illegible]	Length of night	8	34	
31	8	20	18	12				

AUGUST xxxi Days.

Lunations

Laſt Quarter the 3d day, at 2 morning
New Moon the 10th day, at 3 afternoon
Firſt Quarter 17th day, at 8 morning
Full Moon 24th day, at 4 afternoon

M D	Jupiter ſets	Venus riſes
1	8 a 40	1 m 17
7	8 18	1 23
13	7 58	1 34
19	7 38	1 47
25	7 18	2 2

M D	W D	Holy-Days ☉ riſes & ſets	☽ riſes & ſets	Moon's Longit.	Moon's Declin.	Aſpects and Weather
1	C	9 S. aſt. Trin	9 a 54	21 ♈ 58	9 n 38	Lammas day
2	M		10 21	3 ♉ 46	12 53	Windy.
3	T	Sun riſes 4 23	10 52	15 37	15 39	
4	W	Sun ſets 7 36	11 32	27 38	17 45	□ ♄ ♀, ✶ ♃ ♀
5	T		morn	9 ♊ 52	19 6	△ ♄ ☿
6	F	Transfigurat.	0 15	22 25	19 32	Unſettled
7	S	Prs Amelia b.	1 6	5 ♋ 20	18 59	Name of Jeſus
8	C	10 S. aſt. Tr.	2 8	18 39	17 23	✶ ♂ ☿
9	M		3 15	2 ♌ 21	14 45	Some wet.
10	T	St Lawrence	☽ ſets	16 25	11 14	□ ♂ ♀
11	W	Ps. Brunſw. b.	7 a 22	0 ♍ 45	7 0	Dog days end
12	T	Pr. Wales b.	7 47	15 15	2 19	Old Lammasday
13	F		8 17	29 48	2 s 31	[☌ ☉ ☿
14	S	Sun riſes 4 42	8 46	14 ♎ 19	7 12	
15	C	11 S. aſt. Tr.	9 17	28 43	11 27	Aſſumption
16	M	D. of York b.	9 53	12 ♏ 56	14 58	
17	T		10 35	26 58	17 33	
18	W	Sun riſes 4 49	11 26	10 ♐ 49	19 3	Seaſonable, with
19	T	Sun ſets 7 10	morn	24 27	19 25	ſome ſhowers.
20	F		0 22	7 ♑ 54	18 40	
21	S	D. of Clar. b.	1 24	21 9	16 54	
22	C	12 S. aſt. Tr.	2 29	4 ♒ 13	14 18	☌ ♃ ☿
23	M		3 39	17 3	11 5	
24	T	St. Bartholo.	☽ riſes	21 41	7 21	
25	W		6 a 56	12 ♓ 6	3 24	
26	T	Sun riſes 5 3	7 17	24 18	0 n 38	
27	F		7 39	6 ♈ 20	4 35	Moderate.
28	S	St. Auguſtine	8 4	18 13	8 19	△ ♄ ♀
29	C	13 S. aſt. Trin.	9 31	♉ 1	11 42	Beh. of J. Bap.
30	M		9 59	11 48	14 36	
31	T	Sun ſets 6 47	10 33	23 38	16 54	

M D	Saturn Long.	Saturn Decl.	Jupiter Long.	Jupiter Decl.	Mars Long.	Mars Decl.	Venus Long.	Venus Decl.
1	5 47	0 n 1	4 42	10 n 43	6 57	2 s 34	2 14	22 n 7
7	5 36	0 s 5	5 57	10 15	10 39	4 6	9 15	22 8
13	5 22	0 12	7 12	9 47	14 25	5 39	16 20	21 47
19	5 5	0 20	8 29	9 19	18 14	7 11	23 27	21 4
25	4 45	0 29	9 46	8 49	22 6	8 43	0 37	19 59

M D	Sun's Longit.	Sun's Declin.	Obſervations	h.	m.	
C	9♌ 18	17 57				
2	10 15	17 41	Day is decreaſed	1	16	
3	11 13	17 26	Twilight ends at	10	28	
4	12 10	17 10	Durat. of twilight	2	50	
5	13 8	16 54	Sun due Eaſt at	6	56	
6	14 5	16 37				
7	15 3	16 20	Pole Star ſouth at	3	39	Morn.
C	16 0	16 3	Seven Stars ſouth at	6	21	Morn.
9	16 58	15 46	Saturn riſes at	9	1	Aftern.
10	17 56	15 28	Mars ſets at	9	4	Aftern.
11	18 53	15 11				
12	19 51	14 53	Day breaks at	2	4	
13	20 49	14 34	Length of day	14	40	
4	21 46	14 16	Length of night	9	24	
C	22 44	13 57	Day is decreaſed	2	0	
16	23 42	13 38				
17	24 39	13 19	Twilight ends at	9	37	
18	25 37	12 59	Durat. of twilight	2	25	
19	26 35	12 40	Sun due Eaſt at	6	41	
20	27 33	12 20	Pole Star ſouth at	2	50	Morn.
21	28 31	12 0				
C	29 29	11 40	Seven Stars ſouth at	5	28	Morn.
23	0♍ 26	11 20	Sun enters ♍ at	1	40	Morn.
24	1 24	10 59	Saturn riſes at	8	6	Aftern.
25	2 22	10 38	Mars ſets at	8	23	Aftern.
26	3 20	10 17				
27	4 18	9 56	Day breaks at	2	54	
28	5 16	9 35	Length of day	13	46	
C	6 14	9 14	Length of night	10	18	
30	7 12	8 52	Day is decreaſed	2	55	
31	8 10	8 31				

SEPTEMBER XXX Days

Lunations

Laſt Quarter the 1ſt day, at 8 evening
New Moon the 8th day, at 12 night
Firſt Quarter the 15th day, at 3 afternoon
Full Moon the 23d day, at 7 morning

M D	Jupiter ſets	Venus riſes
1	6 a 56	2 m22
7	riſes	2 40
13	4 m52	3 0
19	4 38	3 20
25	4 25	3 40

M D	W D	Holy-Days ☉ riſes & ſets	☽ riſes & ſets	Moon's Longit.	Moon's Declin.	Aſpects and Weather
1	W	Giles	11 a 14	5 ♊ 37	18 n 30	
2	T	Lon. burnt	morn	17 50	19 15	Windy.
3	F		0 3	0 ♋ 22	19 6	☌ ☉ ♃
4	S	Sun riſes 5 21	0 58	13 17	17 58	
5	C	14 S. aft. Tr.	2 3	26 39	15 49	
6	M		3 12	10 ♌ 27	12 44	☍ ♄ ☿
7	T	Enurchus.	4 28	24 42	8 50	
8	W	Nat. B. V. M.	☽ ſets	9 ♍ 18	4 18	
9	T		6 a 23	24 8	0 s 34	About this time
10	F	Sun riſes 5 32	6 55	9 ♎ 4	5 26	
11	S	Sun ſets 6 26	7 26	23 58	9 58	expect wind,
12	C	15 S. aft. Tr.	8 2	8 ♏ 42	13 49	
13	M		8 43	23 11	16 45	rain, and ſome
14	T	Holy Croſs.	9 32	7 ♐ 22	18 35	
15	W	Ember Week	10 26	21 14	19 14	Storms.
16	T		11 28	4 ♑ 48	18 45	
17	F	Lambert.	morn	18 3	17 15	
18	S		0 34	1 ♒ 3	14 53	
19	C	16 S. aft. Tr.	1 40	13 48	11 51	
20	M		2 48	26 20	8 19	
21	T	St. Matthew.	3 54	8 ♓ 41	4 29	More moderate
22	W	K. Geo. III. c.	4 59	20 51	0 31	
23	T		☽ riſes	2 ♈ 53	3 n 26	towards the end.
24	F	Sun riſes 6 0	6 a 18	14 48	7 12	
25	S		6 42	26 37	10 40	☍ ☉ ♄
26	C	17 S. aft. Tr.	7 10	8 ♉ 23	13 41	St. Cyprian
27	M	☉ ſets 5 55	7 44	20 10	16 10	
28	T		8 22	2 ♊ 1	17 57	
29	W	St. Michael	9 5	14 1	18 57	Prs. Ch. Aug. b.
30	T	St. Jerome.	9 58	26 12	19 6	

M D	Saturn Long.	Saturn Decl.	Jupiter Long.	Jupiter Decl.	Mars Long.	Mars Decl.	Venus Long.	Venus Decl.
1	4 18	0 s 41	11 17	8 n 15	26 41	10 s 29	9 2	18 n 18
7	3 53	0 51	12 35	7 46	0 40	11 58	16 17	16 31
13	3 27	1 2	13 53	7 16	4 41	13 25	23 35	14 27
19	2 59	1 15	15 11	6 46	8 46	14 49	0 55	12 8
25	2 31	1 25	16 28	6 17	12 53	16 10	8 17	9 36

M D	Sun's Longit.	Sun's Declin.	Obſervations			
1	9 ♍ 9	8 n 9		h.	m.	
2	10 7	7 47	Twilight ends at	8	50	
3	11 5	7 25	Durat. of twilight	2	6	
4	12 3	7 3	Sun due Eaſt at	6	23	
C	13 1	6 40	Pole ſtar ſouth at	1	52	Morn.
6	14 0	6 18				
7	14 58	5 55	Seven ſtars ſouth at	4	30	Morn.
8	15 57	5 33	Saturn riſes at	7	9	Aftern.
9	16 55	5 10	Mars ſets at	7	44	Aftern.
10	17 53	4 47	Day breaks at	3	30	
11	18 52	4 24				
C	19 50	4 2	Length of day	12	48	
13	20 49	3 38	Length of night	11	16	
14	21 47	3 15	Day is decreaſed	3	54	
15	22 46	2 52	Twilight ends at	8	17	
16	23 45	2 29				
17	24 43	2 6	Durat. of twilight	1	59	
18	25 42	1 43	Sun due Eaſt at	6	6	
C	26 41	1 19	Pole ſtar ſouth at	1	3	Morn.
20	27 39	0 56	Seven ſtars ſouth at	3	45	Morn.
21	28 38	0 32				
22	29 37	0 9	Sun enters ♎ at	9	17	Aftern.
23	0 ♎ 36	0 s 14	Saturn riſes at	6	14	Aftern.
24	1 34	0 38	Equal day and night.			
25	2 33	1 1	Mars ſets at	7	10	Aftern.
C	3 32	1 25				
27	4 31	1 48	Day breaks at	4	9	
28	5 30	2 11	Length of day	11	46	
29	6 29	2 35	Length of night	12	18	
30	7 28	2 58	Day is decreaſed	4	55	

OCTOBER XXXI Days.

Lunations

Laſt Quarter the 1ſt day, at 12
New Moon the 8th day, at 9 morning
Firſt Quarter the 15th day, at 1 morning
Full Moon the 23d day, at 1 morning
Laſt Quarter the 31ſt day, at 1 morning

M D	Jupiter riſes		Venus riſes	
1	4	10	4 m	0
7	3	56	4	20
13	3	40	4	41
19	3	24	5	0
25	3	7	5	19

M D	W D	Holy-Days ☉ riſes & ſets	☽ riſes & ſets	Moon's Longit.	Moon's Declin.	Aſpects and Weather
1	F	Remigius	10 a 55	8 ♋ 41	18 n 20	
2	S		morn	21 32	16 37	✱ ♃ ♂
3	C	18 S. aft. Tr.	0 1	4 ♌ 48	13 59	☌ ♃ ♀
4	M	Sun riſes 6 19	1 12	18 31	10 30	✱ ♂ ♀
5	T		2 27	2 ♍ 42	6 19	Changeable.
6	W	Faith	3 45	17 19	1 39	
7	T	Sun ſets 5 3	5 7	2 ♎ 15	3 s 14	Expect high
8	F		☽ ſets	17 23	8 0	winds about this
9	S	St. Denys	6 a 6	2 ♏ 34	12 15	
10	C	19 S. aft. Tr.	6 45	17 37	15 40	Old Mich. day
11	M	Ox.&Ca.T.b	7 33	2 ♐ 20	17 58	
12	T		8 26	16 54	19 3	
13	W	Tr.KEd.Con.	9 28	0 ♑ 57	18 53	☍ ♄ ♀
14	T		10 33	14 36	17 37	
15	F	Sun riſes 6 4	11 40	27 51	15 26	Stormy.
16	S	Sun ſets 5 17	morn	10 ♒ 45	12 32	
17	C	20 S. aft. Tr.	0 49	23 20	9 7	Etheldred.
18	M	St. Luke	1 55	5 ♓ 40	5 23	Variable,
19	T		3 0	17 48	1 28	
20	W	Sun riſes 6 50	4 4	29 47	2 n 27	☌ ☉ ☿, △ ♄ ♂
21	T		5 8	11 ♈ 40	6 15	and ſo continues
22	F	Sun ſets 5 6	6 12	23 29	9 47	to the end.
23	S		☽ riſes	5 ♉ 17	12 56	
24	C	21 S. aft. Tr.	5 a 52	17 5	15 33	
25	M	K. G. III. ac.	6 27	28 56	17 31	Criſpin
26	T	K. Geo. III. pr.	7 9	10 ♊ 53	18 44	
27	W		7 56	22 57	19 7	
28	T	St. Si. & Jude	8 52	5 ♋ 12	18 36	
29	F		9 53	17 4	17 11	☌ ♀ ☿
30	S		10 59	0 ♌ 30	14 53	
31	C	22 S. aft. Tr.	morn	13 30	11 47	

M	Saturn		Jupiter		Mars		Venus.	
D	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	2 3	1 s 37	17 43	5 n 48	17 3	17 s 27	15 40	6 n 54
7	1 36	1 47	18 58	5 19	21 16	18 39	23 5	4 5
13	1 9	1 57	20 12	4 51	25 31	19 46	0 33	1 10
19	0 45	2 7	21 22	4 24	29 49	20 48	8 1	1 s 47
25	0 22	2 15	22 32	3 57	4 9	21 44	15 30	4 44

M D	Sun's Longit.	Sun's Declin.	Observations	h.	m.	
1	8 ♎ 27	3 s 22				
2	9 26	3 45	Twilight ends at	7	40	
C	10 26	4 8	Durat. of twilight	1	56	
4	11 25	4 31	Sun due Eaſt at	5	46	
5	12 24	4 55				
6	13 23	5 18	Pole ſtar ſouth at	0	1	Morn.
7	14 23	5 41	Seven ſtars ſouth at	2	43	Morn.
8	15 22	6 4	Sun eclipſed, inviſible			
9	16 22	6 27	Saturn ſets at	5	2	Morn.
C	17 21	6 49				
11	18 20	7 12	Mars ſets at	6	41	Aftern.
12	19 20	7 35	Day breaks at	4	41	
13	20 19	7 57	Length of day	10	46	
14	21 19	8 20	Length of night	13	18	
15	22 19	8 42				
16	23 18	9 4	Day is decreaſed	6	0	
C	24 18	9 26	Twilight ends at	7	9	
18	25 18	9 48	Durat. of twilight	1	54	
19	26 17	10 10	Sun due Eaſt at	5	27	
20	27 17	10 31				
21	28 17	10 53	Pole ſtar ſouth at	11	2	Aftern
22	29 17	11 14	Moon eclipſed, viſible			
23	0 ♏ 16	11 35	Sun enters at	5	13	Morn.
C	1 16	11 56	Seven ſtars ſouth at	1	38	Morn.
25	2 16	12 17				
26	3 16	12 37	Saturn ſets at	3	52	Morn.
27	4 16	12 58	Mars ſets at	6	5	Aftern.
28	5 16	13 18	Day breaks at	5	11	
29	6 16	13 38	Length of day	9	46	
30	7 16	13 57				
C	8 16	14 17				

Lunations

New Moon the 6th day at 6 evening
First Quarter the 13th day, at 3 aftern.
Full Moon the 21st day, at 8 evening
Last Quarter the 29th day, at 1 after.

M D	Jupiter riſes	Venus riſes
1	2m48	5m43
7	2 30	6 2
13	2 11	6 20
19	1 52	6 39
25	1 31	6 53

M D	W D	Holy-Days ☉ riſes & ſets	☽ riſes & ſets	Moon's Longit	Moon's Declin.	Aſpects and Weather
1	M	All Saints.	0m 10	27♌12	7n 59	
2	T	Pr. Edward b.	1 23	11♍10	3 38	All Souls
3	W	Prs. Sophia b.	2 42	25 34	1s 4	
4	T	☉ riſes 7 18	4 1	10♎19	5 49	Cool mornings
5	F	Powder plot	5 23	25 22	10 19	and evenings.
6	S	Leonard	☽ ſets	10♏33	14 11	Mic. T. beg.
7	C	23 S. aft. Tr.	5a 22	25 44	17 4	D. of Cumb.
8	M	Prs. A. So. b.	6 15	10♐45	18 44	
9	T	Ld. May. day	7 14	25 27	19 6	
10	W		8 19	9♑44	18 12	
11	T	St. Martin	9 28	23 34	16 15	
12	F		10 37	6♒57	13 29	Weather cold
13	S	Britius	11 43	19 53	10 8	
14	C	24 S. aft. Tr.	morn	2♓27	6 24	and variable.
15	M	Machutus.	0 49	14 43	2 30	
16	T		1 55	25 45	1n 26	
17	W	Hugh Bp. Lin.	2 59	8♈38	5 16	
18	T	☉ ſets 4 19	4 1	20 26	8 54	* ☉ ♃
19	F		5 3	2♉13	12 10	△ ☉ ♄
20	S	Edm. K. &M.	6 6	14 2	14 57	Stormy towards
21	C	25 S. aft. Tr.	☽ riſes	25 55	17 7	the end.
22	M	Cecilia	5a 5	7♊54	18 33	Old Mart. day
23	T	S. Clement	5 51	20 2	19 9	
24	W		6 43	2♋18	18 52	
25	T	D. of Glou. b.	7 43	14 46	17 40	Catherine
26	F	☉ riſes 7 52	8 47	27 25	15 36	□ ♃ ♂
27	S	☉ ſets 4 7	9 55	10♌19	12 44	☌ ♀ ☿
28	C	Advent Sund.	11 4	23 28	9 11	* ♃ ♀, * ♃ ☿
29	M	Mic. Ter ends	morn	6♍55	5 5	□ ♄ ♂, △ ♄ ♀
30	T	St Andrew.	0 17	20 41	0 38	[△ ♄ ☿

M D	Saturn Long.	Saturn Decl.	Jupiter Long.	Jupiter Decl.	Mars Long.	Mars Decl.	Venus Long.	Venus Decl.
1	29 59	2 s 24	23 50	3 n 27	9 16	22 s 39	24 16	8 s 6
7	29 42	2 29	24 53	3 3	13 42	23 18	1 46	10 52
13	29 29	2 33	25 53	2 40	18 10	23 49	9 19	13 30
19	29 19	2 36	26 50	2 18	22 40	24 11	16 51	15 56
25	29 12	2 37	27 43	1 59	27 12	24 23	24 24	18 7

M D	Sun's Longit.	Sun's Declin.	Obſervations			
1	9 ♏ 16	14 s 36		h.	m.	
2	10 17	14 55	Length of night	14	28	
3	11 17	15 14	Day is decreaſed	7	6	
4	12 17	15 33	Twilight ends at	6	39	
5	13 17	15 51				
6	14 18	16 9	☉ eclipſed, inviſible			
C	15 18	16 27	Durat. of twilight	1	58	
8	16 18	16 44	Sun due Eaſt at	5	5	
9	17 19	17 1	Pole Star ſouth at	9	51	Aftern.
10	18 19	17 18				
11	19 20	17 35	Seven Stars ſouth at	0	29	Morn.
12	20 20	17 51	Saturn ſets at	2	35	Morn.
13	21 21	18 7	Mars ſets at	5	42	Aftern.
C	22 21	18 23	Day breaks at			
15	23 22	18 38				
16	24 22	18 53	Length of day	8	44	
17	25 23	19 8	Length of night	15	18	
18	26 24	19 22	Day is decreaſed	7	56	
19	27 24	19 36	Twilight ends at	5	41	
20	28 25	19 50				
C	29 25	20 3	Durat. of twilight	2	3	
22	0 ♐ 26	20 16	☉ enters ♐ at	1	28	Morn.
23	1 27	20 28	☉ due Eaſt at	4	51	
24	2 28	20 41	Pole Star ſouth at	8	40	Aftern.
25	3 28	20 52				
26	4 29	21 4	Seven Stars ſouth at	11	18	Aftern.
27	5 30	21 15	Saturn ſets at	1	31	Morn.
C	6 31	21 25	Mars ſets at	5	17	Aftern.
29	7 32	21 35	Day breaks at	5	51	
30	8 33	21 45				

DECEMBER XXXI Days.

Lunations

New moon the 6th day, at 5 morning
Firſt quarter the 13th day, at 9 morning
Full moon the 21ſt day, at 2 afternoon
Laſt quarter the 28th day, at 11 night

M D	Jupiter riſes	Venus riſes
1	1 m 9	7m 14
7	0 47	7 30
13	0 24	7 44
19	0 1	7 55
25	11 a 37	8 4

M D	W D	Holy-Days ☉ riſes & ſets	☽ riſes & ſets	Moon's Longit.	Moon's Declin.	Aſpects and Weather
1	W		1 m 34	4♎47	3 s 58	
2	T	☉ riſes 7 59	2 50	19 13	8 28	Cold comfort-
3	F	☉ ſets 4 1	4 10	3♏55	12 33	leſs weather.
4	S		5 30	18 49	15 52	
5	C	2 S. in Adv.	6 45	3♐49	18 8	
6	M	Nicholas	☽ ſets	18 44	19 8	
7	T		5 a 48	3♑28	18 49	☍ ♄ ♃
8	W	Conception	6 58	17 51	17 17	
9	T		8 8	1♒48	14 46	Cold rain or
10	F	☉ riſes 8 4	9 17	15 18	11 32	ſnow.
11	S	☉ ſets 3 55	10 26	28 20	7 49	
12	C	3 S. in Adv.	11 34	10♓58	3 52	
13	M	Lucy	morn	23 15	0 n 8	
14	T		0 37	5♈17	4 4	☌ ☉ ☿
15	W	Ember week.	1 40	17 9	7 47	
16	T	Cam. T. ends.	2 42	28 56	11 10	O Sapientia.
17	F	Oxf. T. ends.	3 45	10♉43	14 8	Froſt.
18	S		4 45	22 35	16 31	□ ♄ ☿
19	C	4 S. in Adv.	5 45	4♊34	18 12	□ ♃ ☿
20	M		6 38	16 44	19 5	□ ☉ ♄
21	T	St. Thomas.	☽ riſes	29 5	19 5	Shorteſt day
22	W	☉ riſes 8 8	5 a 24	11♋39	18 9	□ ☉ ♃
23	T	☉ ſets 3 52	6 25	24 26	16 18	□ ♄ ♀
24	F		7 31	7♌25	13 36	□ ♃ ♀
25	S	Chriſtmas D.	8 42	20 35	10 11	
26	C	1 S. aft. Chri.	9 54	3♍56	6 14	St. Stephen
27	M	St. John	11 7	17 29	1 53	Variable towards
28	T	Holy Innocen.	morn	1♎13	2 s 37	the end.
29	W		0 21	15 9	7 3	
30	T	☉ riſes 8 6	1 27	29 18	11 10	
31	F	Silveſter	2 53	13♏37	14 40	

M D	Saturn Long.		Saturn Decl		Jupiter Long		Jupiter Decl.		Mars Long.		Mars Decl.		Venus Long.		Venus Decl.	
1	29	10	2 s	37	28	31	1 n	41	1	46	24 s	26	1	57	20 s	1
7	29	12	2	35	29	14	1	25	6	21	24	20	9	30	21	34
13	29	18	2	32	29	53	1	11	10	59	24	3	17	4	22	44
19	29	26	2	27	0	25	0	59	15	38	23	36	24	37	23	29
25	29	40	2	20	0	52	0	50	20	18	22	59	2	10	23	48

M D	Sun's Longit		Sun's Declin.		Observations			
1	9 ♐	33	21 s	54		h.	m.	
2	10	34	22	3	Length of day	8	4	
3	11	35	22	12	Length of night	15	56	
4	12	36	22	20	Day is decreaſed	8	34	
C	13	37	22	28	Twilight ends at	6	3	
6	14	38	22	35				
7	15	39	22	42	Durat. of twilight	2	6	
8	16	40	22	48	Sun due Eaſt at	4	43	
9	17	42	22	54	Pole Star ſouth at	7	39	Aftern.
10	18	43	22	59	Seven Stars ſouth at	10	21	Aftern.
11	19	44	23	4				
C	20	45	23	8	Saturn ſets at	0	32	Morn.
13	21	46	23	12	Mars ſets at	5	11	Aftern.
14	22	47	23	16	Day breaks at	5	59	
15	23	48	23	19	Length of day	7	46	
16	24	49	23	22				
17	25	50	23	24	Length of night	16	14	
18	26	51	23	26	Day is decreaſed	7	44	
C	27	52	23	27	Twilight ends at	5	59	
20	28	54	23	28				
21	29	55	23	28	☉ enters ♑ at	1	52	Aftern.
22	0 ♑	56	23	28	Durat. of twilight	2	7	
23	1	57	23	27	Sun due Eaſt at	4	40	
24	2	58	23	26	Pole Star ſouth at	6	33	Aftern.
25	3	59	23	24				
C	5	0	23	22	Seven Stars ſouth at	9	11	Aftern.
27	6	2	23	20	Saturn ſets at	11	28	Aftern.
28	7	3	23	17	Mars ſets at	4	57	Aftern.
29	8	4	23	13	Day breaks at	6	0	
30	9	5	23	9	Length of day	7	48	
31	10	6	23	5				

Mercury's Longitude and Declination, for 1790.

Days	Long.	Declin.	Long.	Declin.	Long.	Declin.
	January	January	February	February	March	March
1	9 ♑ 8	24 s 49	0 ♓ 42	11 s 20	23 ♒ 30	11 s 24
4	14 40	24 32	4 11	9 25	22 50	12 17
7	19 35	24 2	6 35	7 47	23 9	12 50
10	24 34	23 17	7 36	6 40	24 17	13 5
13	29 37	22 18	7 3	6 11	26 7	13 2
16	4 ♒ 44	21 5	5 4	6 25	3 31	12 43
19	9 52	19 37	2 5	7 17	1 ♓ 24	12 8
22	15 0	17 57	28 ♒ 50	8 30	4 39	11 19
25	20 3	16 5	25 58	9 50	8 15	10 17
28	24 53	14 4	23 57	11 3	12 9	9 2
	April	April	May	May	June	June
1	17 ♓ 46	7 s 3	3 ♉ 8	15 n 54	4 ♋ 17	24 n 46
4	22 15	5 21	19 38	18 16	6 26	24 9
7	26 59	3 28	26 2	20 23	7 58	23 25
10	1 ♈ 58	1 25	2 ♊ 12	22 10	8 51	22 38
13	7 10	0 n 47	8 3	23 34	9 2	21 49
16	12 36	3 7	13 29	24 35	8 33	21 1
19	18 17	5 35	18 29	25 14	7 30	20 16
22	24 12	8 8	22 59	25 33	5 58	19 39
25	0 ♉ 21	10 45	27 0	25 35	4 13	19 9
28	6 41	13 22	0 ♋ 29	25 22	2 29	18 49
	July	July	August	August	September	September
1	1 3	18 n 42	27 ♋ 25	21 n 32	26 ♍ 5	1 n 52
4	0 8	18 48	3 24	20 39	0 ♎ 48	0 s 21
7	29 ♊ 54	19 6	9 33	19 22	5 21	2 31
10	0 ♋ 27	19 34	15 43	17 46	9 43	4 36
13	1 47	20 8	21 48	15 55	13 53	6 36
16	3 56	20 45	27 44	13 53	17 52	8 30
19	6 53	21 20	3 ♍ 28	11 43	21 38	10 18
22	10 33	21 49	9 1	9 28	25 9	11 57
25	14 56	22 6	14 22	7 11	28 22	13 26
28	19 57	22 6	19 30	4 54	1 ♏ 12	14 43
	October	October	November	November	December	December
1	3 ♏ 34	15 s 46	21 ♎ 23	6 s 29	2 ♐ 21	20 s 41
4	5 20	16 31	23 29	7 4	7 3	21 52
7	6 18	16 52	26 35	8 10	11 45	22 54
10	6 16	16 45	0 ♏ 23	9 36	16 27	23 46
13	5 3	16 0	4 35	11 14	21 11	24 26
16	2 34	14 35	9 2	12 56	25 55	24 55
19	29 ♎ 6	12 33	13 37	14 39	0 ♑ 41	25 12
22	25 23	10 16	18 16	16 18	5 29	25 16
25	22 22	8 14	22 57	17 53	10 19	25 6
28	20 50	6 54	27 39	19 21	15 11	24 43

A Compendious Chronology of memorable Things ſince the Creation to this preſent Year.

A.P.J.	*before Chriſt.*		*Years ſince.*
710	4004	The Creation of the World	5794
1766	2948	*Noah* born	4738
2366	2348	*Noah*'s Flood began	4138
2481	2233	The *Babylonian* Monarchy eſtabliſhed	4023
2718	1996	*Abraham* born	3786
2986	1728	*Joſeph* ſold into *Egypt*	3518
3143	1571	*Moſes* born	3361
3223	1491	The *Iſraelites* Departure out of *Egypt*	3281
3530	1184	*Troy* taken and deſtroyed by the *Greeks*	2974
3710	1004	*Solomon*'s Temple built and dedicated	2793
4126	588	*Jeruſalem* and the Temple deſtroyed	2378
4176	538	*Daniel* delivered from the Den of Lions	2328
4198	516	The Temple of *Jeruſalem* rebuilt	2306
4391	323	The Death of *Alexander the Great*	2113
4710	4	The true Year of *Chriſt*'s Birth	1794
4714	0	The vulgar Year of *Chriſt*'s Birth	1790

A.D		
33	The Paſſion and Reſurrection of *Jeſus Chriſt*	1757
70	*Jeruſalem* and the Temple deſtroyed by *Titus*	1720
100	St. *John*, the laſt of the Apoſtles, dies *Dec.* 20.	1690
313	Chriſtianity triumphs under *Conſtantine*	1477
476	*Auguſtulus*, the laſt *Roman* Emperor, depoſed	1314
606	The wicked *Phocas* makes Pope *Boniface* Head of the Church	1184
608	*Mahomet* broaches his Impoſture at *Mecca*	1182
872	*Italy* and *Rome* plundered by the *Saracens*	918
1012	*Swain* King of *Denmark* conquers *England*	778
1066	*William* Duke of *Normandy* conquers *England*	724
1110	Arts and Sciences taught in *Cambridge*	680
1119	The firſt War between the *French* and *Engliſh*	571
1300	The Mariners Compaſs invented	490
1330	The *Canaries* diſcovered by an *Engliſh* Ship	460
1380	Gunpowder and the Uſe of Guns firſt found out	410
1453	*Conſtantinople* taken from the *Chriſtians*	337

A.D.		Years ſince.
1463	The *Perſians* conquered by *Tamerlane*	327
1500	*Rome* plundered by the Duke of *Bourbon*	290
1517	*Martin Luther* firſt diſputed againſt Popery	272
1536	*England* ſeparated from the Church of *Rome*	254
1588	The *Spaniſh Armada* defeated by the *Engliſh*	200
1603	Q. *Eliz.* dies *March* 24, and K. *James* I. began	187
1604	Died of the Plague in *London*, in 2 Years, 68,596	186
1605	Gunpowder Treaſon, *Nov.* 5.	185
1613	The New River Water brought to *London*	177
1618	The excellent Sir *Walter Raleigh* beheaded	172
1625	K. *James* I. died, King *Charles* I. began, *Mar*. 27.	165
1625	35,417 Perſons died of the Plague in *London*	165
1641	The cruel *Iriſh* Maſſacre began, *October* 23.	149
1643	*Burleigh-Houſe* ſtormed by *Cromwel*, *July* 24.	147
1649	K. *Charles* I. beheaded, *January* 30.	141
1658	*Oliver Cromwell* died.	132
1660	K. *Charles* II. reſtored, *May* 29.	130
1665	68,586 Perſons died of the Plague in *London*	125
1666	*London* burnt, and a great Sea-Fight with the *Dutch*	124
1672	War declared againſt the *Dutch*, *March* 17.	118
1674	A great Snow for 11 Days together	116
1675	The Town of *Northampton* burnt, *Sept*. 3.	115
1680	A great and ſplendid Comet appeared	110
1684	The great Froſt that held 13 Weeks	106
1685	K. *Charles* II. died, *Feb*. 6. and K. *James* II. began	105
1685	The Duke of *Monmouth* beheaded, *July* 15.	105
1688	Seven Biſhops ſent to the *Tower*, *June* 8.	102
1688	K. *James* II. abdicated, *December* 12.	102
1689	K. *William* and Q. *Mary* crowned, *April* 11.	101
1692	The *French* Fleet entirely defeated by the *Engliſh*	98
1698	*Whitehall* Palace deſtroyed by Fire.	92
1702	K. *William* died, *March* 8, and Q. *Anne* began	88
1702	Q. *Anne* proclaimed War againſt *France*, *May* 4.	88
1703	A great and terrible Wind, *Nov*. 26 and 27.	87
1704	*Gibraltar* taken by the *Engliſh*	86
1707	*England* and *Scotland* united, *May* 1.	83
1710	Riots and great Diſturbances in *England*.	80
1714	Q. *Anne* died *Auguſt* 1. and K. *George* I. began	76

A.D.		Years ſince.
1715	A Rebellion in *Scotland* and *Lancaſhire* ſuppreſſed	75
1716	A great Froſt in the Beginning of this Year	74
1718	The *Spaniſh* Fleet deſtroyed by Admiral *Byng*.	72
1719	A ſurprizing Meteor ſeen; *March* 19, at 8 at Night	71
1719	Mr. *Flamſteed*, a celebrated Aſtronomer died *Dec.* 31.	71
1727	The incomparable Sir *Iſaac Newton*, died *Mar.* 20.	63
1727	K. *George* I. died, *June* 11, and K. *George* II. began	63
1736	The Prince and Princeſs of *Wales* married, *Ap.* 27.	54
1739	Letters of Marque publiſhed in *London* againſt the *Spaniards*, *July* 16.	51
1739	War declared by *Great Britain* againſt *Spain*.	51
1739	*Porto-Bello* taken and deſtroyed by Admiral *Vernon*.	51
1740	A very ſevere Froſt from *Dec.* 25, to *Feb.* 27.	50
1742	A Comet appeared from *Feb.* 18, to *March* 14.	48
1743	A ſplendid Comet appeared from *December* 23, to *February* 18, in ♈	47
1744	*March* 4. *France* declared War againſt *England*: and *March* 31, *England* declared War againſt *France*.	46
1745	*Cape Breton* taken from the *French*, *June* 16.	45
1746	The *Scotch* Rebels defeated by the Duke of *Cumberland*, at *Culloden*, near *Inverneſs*, *April* 16.	44
1748	A General Peace ſigned *October* 7.	42
1749	*Cape Breton* reſtored to the *French*.	41
1750	The *Britiſh* Fiſhery eſtabliſhed.	40
1751	The Prince of *Wales* died *March* 20.	39
1752	The Date and Calendar altered.	38
1755	*Liſbon* deſtroyed by an Earthquake, *Nov.* 1.	35
1756	*England* declared War againſt *France*, *May* 18.	34
1756	The Iſland *Minorca* taken by the *French*, *June* 27.	34
1757	Count *Brown* defeated by the King of *Pruſſia* near *Prague*, *May* 6.	33
1757	The King of *Pruſſia* defeated by Count *Daun* at *Collin*, *June* 18.	33
1758	The *French* defeat. at *Crevelt* by P. *Ferdinand*, *June* 23	32
1758	Lord *Howe* ſlain, *July* 6, and Gen. *Abercrombie* repulſed at *Ticonderoga*, *July* 8.	32
1758	*Cape Breton* taken by the *Engliſh*, *July* 26.	32

A.D.		Years ſince.
1758	The *Ruſſians* defeated at *Zorndorff* by the King of *Pruſſia, Sept.* 25.	32
1759	The Iſland of *Guadalupe* taken by Gen. *Barrington* and Commodore *Moore, May* 1.	31
1759	The *French* defeat. at *Minden* by P. *Ferdinand, Aug.* 1.	31
1759	The King of *Pruſſia* defeated at *Cunnerſdorff* by the Count *de Soltikoff, Auguſt* 12.	31
1759	Gen. *Wolfe* ſlain, though victorious, *Sept.* 13, and *Quebec* taken *Sept.* 18, by Gen. *Townſhend.*	31
1760	*Montreal* taken by Gen. *Amherſt, Sept.* 8.	30
1760	K. *Geo.* II. died *Oct.* 25, and *Geo* III. ſucceeded.	30
1761	*Pondicherry* taken by Col. *Coote, Jan.* 15.	29
1761	K. *George* III. married Q. *Charlotte, Sept.* 8.	29
1761	K. *George* III. crowned, *Sept.* 22.	29
1762	The Iſland of *Martinico* taken by Gen. *Monckton* and Adm. *Rodney, Feb.* 14.	28
1762	*George* Prince of *Wales* born, *Auguſt* 12.	28
1762	The *Havannah* taken by Lord *Albemarle* and Sir *George Pocock, Auguſt* 12.	28
1763	A general Peace in all *Europe.*	27
1763	Pr. *Frederick,* Biſhop of *Oſnaburgh,* born *Aug.* 16.	27
1765	Prince *William-Henry* born *Auguſt* 21.	25
1766	Princeſs *Charlotte-Auguſta-Matilda* born *Sept.* 29.	24
1767	Prince *Edward* born *Nov.* 2.	23
1768	Princeſs *Auguſta-Sophia* born *Nov.* 8.	22
1770	Princeſs *Elizabeth* born *May* 22.	20
1771	Prince *Erneſt-Auguſtus* born *June* 5.	19
1772	*Swedes* reſign their Liberties to the King.	18
1773	Prince *Auguſtus-Frederick* born *Jan.* 27.	17
1773	The Light Gold recoined.	17
1774	Prince *Adolphus Frederick* born *Feb.* 24.	16
1775	War commenced againſt the *North-Americans.*	15
1776	Princeſs *Mary* born *April* 25.	14
1776	The *Americans* declare themſelves independent.	14
1777	Princeſs *Sophia* born *Nov.* 3.	13
1778	The *French* ſign a Treaty with the *Americans.*	12
1778	War begun againſt the *French.*	12
1779	War commenced againſt the *Spaniards.*	11
1780	War againſt the *Dutch* begun.	10
1783	A general Peace.	7
1783	Princeſs *Amelia* born	7

Equation of Time to the neareſt Minute.

Day	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Day
	ſub	ſub	ſub	ſub	add	add	ſub	ſub	add	add	add	add	
	min	m	m	m	m	m	m	m	m	m	m	m	
1	4	14	12	4	3	3	3	6	0	11	16	10	1
2	4	14	12	3	3	2	4	6	1	11	16	10	2
3	5	14	12	3	3	2	4	6	1	11	16	9	3
4	5	14	12	3	4	2	4	6	1	11	16	9	4
5	6	14	12	2	4	2	4	6	2	12	16	9	5
6	6	15	11	2	4	2	4	5	2	12	16	8	6
7	7	15	11	2	4	1	5	5	2	12	16	8	7
8	7	15	11	2	4	1	5	5	3	13	16	7	8
9	8	15	11	1	4	1	5	5	3	13	16	7	9
10	8	15	10	1	4	1	5	5	3	13	16	6	10
11	8	15	10	1	4	1	5	5	4	13	16	6	11
12	9	15	10	1	4	0	5	5	4	14	15	5	12
13	9	15	9	0	4	0	5	4	4	14	15	5	13
14	10	15	9	0	4	0	5	4	5	14	15	4	14
15	10	15	9	add	4	ſub	6	4	5	14	15	4	15
16	10	14	9	0	4	0	6	4	6	15	15	4	16
17	11	14	8	1	4	1	6	4	6	15	15	3	17
18	11	14	8	1	4	1	6	3	6	15	14	3	18
19	11	14	8	1	4	1	6	3	7	15	14	2	19
20	11	14	7	1	4	1	6	3	7	15	14	2	20
21	12	14	7	2	4	1	6	3	7	15	14	1	21
22	12	14	7	2	4	2	6	2	8	16	13	1	22
23	12	14	6	2	4	2	6	2	8	16	13	0	23
24	13	14	6	2	4	2	6	2	8	16	13	ſub	24
25	13	13	6	2	3	2	6	2	9	16	12	1	25
26	13	13	6	3	3	2	6	1	9	16	12	1	26
27	13	13	5	3	3	3	6	1	9	16	12	2	27
28	13	13	5	3	3	3	6	1	10	16	11	2	28
29	14		5	3	3	3	6	0	10	16	11	3	29
30	14		4	3	3	3	6	0	10	16	11	3	30
31	14		4		3		6	add		16		4	31

If the equal or clock time be given, add or ſubtract the tabular numbers to or from it, as directed in the table; the ſum or difference will be the apparent or ſolar time. But do the contrary to reduce the apparent to equal time.

The Eclipſes of Jupiter's

January				*February*				*March*				*April*			
Immerſions				Immerſions				Emerſions				Emerſions			
d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s
2	9	46	9	1	11	40	3	1	21	33	1	2	18	17	1
4	4	13	44	3	6	8	19	3	16	2	9	4	12	46	9
5	22	41	20	5	0	36	3	5	10	31	7	6	7	15	2
7	17	8	59	6	19	5	3	7	5	0	7	8	1	44	27
9	11	36	39	8	13	33	30	8	23	29	8	9	20	13	34
11	6	4	19	10	8	1	58	10	17	58	11	11	14	42	39
13	0	32	4	12	2	30	29	12	12	27	13	13	9	11	41
14	18	59	51	13	20	59	2	14	6	56	19	15	3	40	50
16	13	27	40	Emerſions				16	1	25	24	16	22	9	54
18	7	55	31	15	17	42	59	17	19	54	30	18	16	38	56
20	2	23	24	17	12	11	38	19	14	23	37	20	11	7	58
21	20	51	20	19	6	40	19	21	8	52	45	22	5	36	58
23	15	19	20	21	1	9	2	23	3	21	53	24	0	5	57
25	9	47	23	22	19	37	46	24	21	51	2	25	18	34	55
27	4	15	27	24	14	6	34	26	16	20	12	27	13	3	51
28	22	43	36	26	8	35	24	28	10	49	23	29	7	32	44
30	17	11	48	28	3	4	17	30	5	18	34				
								31	23	47	49				

May				*June*				*July*				*Auguſt*
Emerſions				Emerſions				Emerſions				
1	2	1	44	1	22	36	44	2	0	37	28	
2	20	30	30	3	17	5	4	3	19	5	46	
4	14	59	26	5	11	33	24	5	13	34	5	
6	9	28	11	7	6	1	45	7	8	2	21	The Eclipſes of the Satellites of *Jupiter* will not be viſible this Month, *Jupiter* being too near the Sun.
8	3	56	56	9	0	30	3	9	2	30	43	
9	22	25	40	10	18	58	18	10	20	59	4	
11	16	54	23	12	13	26	36	12	15	27	28	
13	11	23	5	14	7	54	52	14	9	55	52	
15	5	51	46	16	2	23	8	16	4	24	18	
17	0	20	25	17	20	51	22	17	22	52	41	
18	18	49	2	19	15	19	38	19	17	21	14	
20	13	17	36	21	9	47	54	21	11	49	45	
22	7	46	7	23	4	16	10	23	6	18	19	
24	2	14	35	24	22	44	26	25	0	46	49	
25	20	43	2	26	17	12	40	26	19	15	24	
27	15	11	29	28	11	40	53	28	13	44	0	
29	9	39	55	30	6	9	13	30	8	12	39	
31	4	8	21									

Firſt Satellite for 1790.

September	October				November				December			
	Immerſions				Immerſions				Immerſions			
	d.	h.	m.	s.	d.	h.	m	s.	d.	h.	m.	s.
	1	23	22	49	1	1	32	2	1	3	29	14
	3	17	51	52	2	20	0	27	2	21	56	52
The Eclipſes of *Jupiter*'s Satellites will not be viſible this Month, *Jupiter* being too near the Sun.	5	12	20	50	4	14	28	50	4	16	24	31
	7	6	49	48	6	8	57	10	6	10	52	8
	9	1	18	45	8	3	25	27	8	5	19	44
	10	19	47	41	9	21	53	42	9	23	47	18
	12	14	16	34	11	16	21	54	11	18	14	50
	14	8	45	26	13	10	50	3	13	12	42	21
	16	3	14	16	15	5	18	9	15	7	9	53
	17	21	43	3	16	23	46	13	17	1	37	24
	19	16	11	48	18	18	14	14	18	20	4	54
	21	10	40	32	20	12	42	12	20	14	32	23
	23	5	9	11	22	7	10	8	22	8	59	53
	24	23	37	52	24	1	38	3	24	3	27	23
	26	18	6	27	25	20	5	57	25	21	54	53
	28	12	35	1	27	14	33	39	27	16	22	23
	30	7	3	33	29	9	1	29	29	10	49	53
									31	5	17	24

To illuſtrate the Uſe of the preceding Table by an Example.

Suppoſe on the 25th Day of December this Year, the Time of the Immerſion of Jupiter's firſt Satellite be obſerved by a Teleſcope in an unknown Meridian, to happen at 23h. 43 min. 13 ſeconds; I find by the Table, that the Time of this Immerſion will happen at the Britiſh Obſervatory at 21 h. 54 min. 53 ſec. the ſame Day: The Difference of the Times is 1 h. 48 min. 20 ſec. which being converted into Degrees and Minutes of the Equator, at the Rate of 15 Degrees per Hour, will make 27 deg. 5 min. the Longitude of the Place of Obſervation to the Eaſt; becauſe the Time is more than that at the Britiſh Obſervatory.

Operation.				
	Immerſion obſerved — ——	23^h	43^m	13^s
	Immerſion at *Greenwich* ——	21	54	53
	The Difference of Time ——	1	48	20
	Anſwering to —— —	27°	5′	0″

Of the Eclipſes which will happen in this preſent Year 1790.

Upon a ſtrict Examination of the Motions of the two great Luminaries which rule by divine Appointment, the Day and the Night, till Time ſhall be no more, I find that this preſent circling Year will afford us ſix Eclipſes, viz. Four of the Sun, but theſe are to the Inhabitants of Great-Britain all inviſible; and two viſible ones of the Moon, the Times and Order of which, will be the Subject of the ſubſequent Lines in the preſent Page.

The Firſt then will happen on the 14th Day of April, at 29 Min. paſt Noon, this will be an inviſible Defect of the Sun. ☉'s Long. 0^s 24° 43′. ☽'s Lat. 1° 24′ North.

The Second will be a viſible Eclipſe of the Moon, which will begin on the Evening of the 28th Day of April, and end in the Morning of the 29th, ſee the following Calculation.

April 28,	Beginning at	10h.	10m. Night.
	Beginning of total Darkneſs	11	8
	Middle	11	56½
April 29,	End of total Darkneſs	0	45 Morn.
	End of the Eclipſe	1	42¾
	Duration	3	32

Digits eclipſed 20° 1′ from South Side of ⊖'s Shadow.

The Third will be an inviſible Eclipſe of the Sun, on Friday the 14th Day of May, at 36 Min. after 4 in the Morning. ☉'s Long. 1^s. 23° 29½′, ☽'s Lat. 1° 13¼′ South.

The Fourth will alſo be an inviſible Defect of the Sun, on Friday the 8th Day of October, at 8 Hours, 36 Min. in the Morn. ☉'s Long. 6^s 15° 14′. ☽'s Lat. 1° 27′ South.

The Fifth will be a viſible Eclipſe of the Moon, on Friday and Saturday the 22d and 23d of October, of which the following is an accurate Calculation.

Oct. 22	Beginning at	10h.	56m. Night.
Oct. 23	Beginning of total Darkneſs at	0	3 Morn.
	Middle	0	54
	End of total Darkneſs	1	46
	End of Eclipſe	2	52
	Duration of ditto	3	56

Digits eclipſed 18° 55′ from North Side of ⊖'s Shadow.

The laſt is an inviſible Eclipſe of the Sun, and will be on Saturday the 6th of November, at 21 Min. paſt 6 in the Evening. ☉'s Long. 17^s 14° 34′. ☽'s Lat. 1° 14′ North.

I am very ſenſible that what I am now about, one Part of my Readers would freely excuſe, while another would think the Omiſſion unpardonable. Unhappily the Bulk of Mankind is in general given to run into oppoſite Extremes: thus, during the Uſurpation of Oliver Cromwell, Puritaniſm was the reigning Faſhion, and a gloomy Look and hypocritical Cant beſpoke the precious Saint of that Age; but when thoſe Days of Deluſion were over, the Uſurper gone to a ſuperior Tribunal to give the beſt Account he could of himſelf, and the merry Monarch Charles II. reſtored to his undoubted Rights; the Nation, inſtead of adhering to the right Line of Moderation, flew immediately to the oppoſite Extreme, and People now choſe to appear as if they had no Religion at all, leſt they ſhould be thought Puritans.—It is the ſame with People in the Caſe of Aſtrology; little better than a Century ago, Aſtrologers were favorites of Princes, and their Advice and Opinions of future Events enquired for in every Matter of Conſequence. Nay, ſo far had this Art once got the Pre-eminence, that Agriculture and Phyſic could do nothing at all without it: not an Herb, either ſalutary or noxious, but was under ſome Planet; and to render its Qualities, whether good or baneful, moſt efficacious, it muſt be gathered in a planetary Hour. In planting, reaping, letting of Blood, or ſhearing of Sheep, however Time and Place might concur for Convenience, nothing was to be done, forſooth, till the Almanac was reached down, and the Moon conſulted. If theſe ſuperſtitious Follies of our Forefathers are now by their ſapient Sons juſtly ridiculed, who knows what Poſterity may ſay of the preſent Race of Anti-aſtrologians, who, leaping over the Line of penſive Moderation, fly from every thing that appears like Prediction, as a Mouſe would from the Claws of a Cat; will not the ſenſible moderate Men of a future Day ſay, I do not ſee that our Forefathers were ſo much ſuperior in point of Judgment to theirs; in point of Knowledge certain it is they did; but for that thanks are due to the immortal Newton; not to them. If he has raiſed them ſo much higher in Knowledge than their Forefathers, to God and him be the Praiſe.

"Nature and Nature's Laws lay hid in Night,
"God ſaid let Newton be, and all was Light."

The great Mr. Pope pays him the following genteel Compliment:

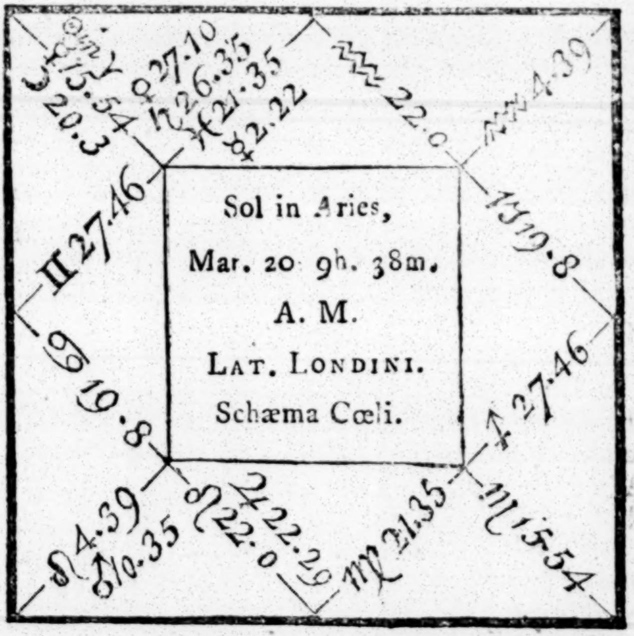
"Superior Beings (when at firſt they ſaw
"One mortal Man unfold all Nature's Law,)
"Admir'd ſuch Wiſdom in a human Shape,
"And ſhew a Newton as we ſhew an Ape."

True it is, that they are advanced in Knowledge to a State much ſuperior to that of their Predeceſſors; but thanks to Sir Iſaac are due, and not to them.—It was his Head and not theirs that gave them this ſuperior Knowledge. If mounted upon the Summit of his penetrating Genius and profound Philoſophy, founded upon the firm Baſis of Geometry, they riſe ſuperior to their Anceſtors; the Glory is not theirs; As well might Sir Iſaac Newton's Hat have claimed a ſuperiority over his Head, becauſe it ſtood topmoſt. Will they not likewiſe add, that although the Opinions of our Anceſtors were too ſuperſtitious, yet there was ſomething high and noble in them: they looked into the Volume of the wide Creation, and when they ſaw the Erratics wandering, now direct,—anon retrograde, I think that, in the State of Learning they were then in, they acted much wiſer than the Moderns, who, leaving Aſtrology entirely aſide, have run into the oppoſite Extreme; and becauſe Aſtrology has been abuſed, as there are Fools in every Line of Life, yet will every moderate Man, (if he be a Son of Senſibility) ſay,—This Art has been much traduced, yet the Affair ought not to be laid aſide;—We find in Scripture that Moſes was ſkilled in all the Learning of Egypt, of which Magic was one, and Aſtrology another.—It certainly is true that there is ſuch a Thing as Divination, witneſs Moſes and the Prophets, I muſt here add the Evangeliſts of the bleſſed Jeſus.—I will not pretend to ſay that what they did was by Aſtrology, or even their Predictions; but I will ſay this, that never a Soul of them ſaid any thing againſt it. Now really I am, after all, not an abſolute Vindicator of Aſtrology; but let it take its fair Chance. If the Contents of two future Pages prove true, believe it;—if not, diſbelieve it. True it is that my Ephemeris is rather an Aſtronomical one, than an Aſtrological one, yet to thoſe in that Line, I dedicate the following Page, in the mean Time, wiſhing all my Readers to obſerve, that I give no Predictions as certain Verities; but only as ſhrewd gueſſes from planetary Poſitions, according to the Doctrines and Rules laid down by the Ancients.

" Give me in Truth myſterious to deſcry,
" Which in the Womb of diſtant Cauſes lie;
" To know the various Labours of the Moon,
" And whence proceed th' Eclipſes of the Sun;
" What ſhakes the ſolid Earth; what Cauſe delays
" The Summer Nights, and ſhortens Winter Days;
" Whence Rains ariſe, and Fires their warmth diſpenſe,
" And fix'd and erring Stars diſpoſe their Influence."

ASTROLOGICAL Obſervations for the Year 1790.

On the 28th Day of March, at 38 Minutes paſt 9 in Morning, the reſplendent God of Day once more enters upon the firſt Scruple of Aries, hence our Spring Quarter commences; and a *Schæma Cœli* according to the Rules of Ancient Aſtrologers at that Juncture, you have as follows.



Thus has ancient Aſtrology erected Schæma Cœli ad introitum Solis in primum Punctum Arietis, for the Inſpection of thoſe who dare be ſo old faſhioned as to venerate an Art, profeſſed and prized by the Sages of Antiquity.

In the above Scheme 22 Deg. or Aquarius may be obſerved to culminate and 27 Deg. 45 Min. of Gemini to aſcend. I muſt obſerve that ♃ is retrograde, and lately departed from an ☍ to ☿; ♀ is likewiſe retrograde, and has juſt departed from a ☌ with ☉, and is haſtening to a ☌ with ♄. Other Obſervations will be obvious to thoſe who are Adepts in the Science; and to thoſe who are otherwiſe, a Volume upon the Subject would only be a Volume thrown away; many there are who affect to deſpiſe Things merely becauſe they cannot comprehend them; May God mend the Heads of ſome of us, and the Hearts of us all. As to Prognoſtics of the preſent Year, far be it from me to threaten the World with a wide Scene of Deſolation; yet there are full many in the wide World who ſhall be loaded with more Diſaſters than a prudent Man would deem a comfortable Load. Politics will perplex more weak Heads than they will edify; yet ſuch the Rage for Politics, that although I am very far from thinking every Politician to be a Fool, yet I will venture to affirm, that almoſt every Fool affects to be a Politician. However, we may expect at the beginning of this Quarter to hear of ſome old News confirmed, others in part contradicted; and a freſh Cargo imported as a Subject of future Meditation: the Weather, it is to be hoped, upon the Whole moderately ſeaſonable, and ſuch as ſhall give Satisfaction to the Huſbandman, if ſuch a Thing be poſſible. With reſpect to Health, I will not affirm it to be a peſtilential Year; yet Death's Shafts will fly thick enough to remind every one of their latter End, and to put every prudent Man upon his guard. The Eclipſe in the Month of April is (by the Poſition of the Moon at that Time) ſaid to denote Thefts and Rapine: but I ſuppoſe we ſhould have enough of that, whether the Moon be eclipſed or no. Advancing ſtill further in the Year, we ſee ſuch a Mixture of various Aſpects as betokens a buſy Year and a buſtling World; but I ſhall not launch out too far, or boldly touch upon Particulars, leſt my *ipſe dixit* ſhould turn out falſe Conjectures, and the Tribe of Mechanical Politicians ſhould retort upon me with a Sarcaſm, ſaying that the Falſity of my Predictions was a ſufficient Proof that Politicks was a Subject too deep for my poor Head to fathom; and that Prophecy, like Honey, was never made for the Mouth of an Aſs. Wait we therefore with Patience when Doubts ariſe, nor let us even if we could expoſe the Arcana of Government, ſeeing that Secrecy and Celerity are the two grand Wheels upon which all great Actions move.

Whatever Stratagems or Diviſions may be in the World I will not pretend to determine, nor would I if I could; ſeeing a foreboding of Miſery which poſſibly cannot be prevented, only adds Sorrow to Trouble; and one at a Time is as much as any reaſonable Man would wiſh for; ever remembering the ancient Adage, viz. A ſtill Tongue makes a wiſe Head.—This, however, I will affirm, that if we will ſtudy to preſerve Peace and Unity among ourſelves, and a hearty Zeal and Loyalty to the beſt of Kings, whom Heaven in Mercy to theſe Realms has reſtored to the Prayers of his People, we may ſtill be a happy Nation.

Winds whereſoe'er ye blow,
Give the whole World to know,
  O'er the wide Main;
Waft the glad Tidings o'er,
Tell it on ev'ry Shore
Where Ocean's Billows roar,
  George reigns again.

I pray God preſerve our gracious King, his truly amiable Queen, and every Branch of that auguſt Family: when I conſider ſuch a Family, ſo well trained in the Principles of true Religion, and the moſt refined Morality, with a thorough Knowledge of the polite Arts; when I further reflect that theſe ſhall ſome future Day be joined with Royal Blood in the holy State of Matrimony. Methinks I could in extaſy ſay to my King, as the Almighty ſaid to Abraham, In thee and thy Seed ſhall all the Nations of the Earth be bleſſed.

Of the Planet VENUS.

(CONTINUED from LAST YEAR.)

Of the Structure, Nature and Subſtance of this Planet, from the Phenomena already recited, it may be concluded, that it is an opacous Body, and hath its Light from the Sun; that it is ſpherical, becauſe it is ſpherically illuminated; that it is of a Solid and conſiſtent Subſtance, in regard, though carried in a rapid Courſe through the liquid Æther it is not diſſolved or diſſipated: It is of a rough and uneven Superficies, in regard it is repreſented to be ſuch by the Teleſcope, and otherwiſe, could not in ſuch Abundance reflect the Sun's Light upon the

Earth, which it is obſerved ſometimes to do to ſuch an eminent Degree, that Bodies objected to its Rays are ſeen to caſt a Shadow; it is made up of ſolid and liquid Matter, as our Terraqueous Globe, and is found to have a vertiginous Motion about its own Axis and Center, which it completes within the Space of fourteen Hours, according to Rheita.

As to its apparent and true Diameter, its Solidity and Proportion to the Body of the Earth, as likewiſe its Diſtance from thence, Authors extremely vary. Ricciolus in the ſeventh Book of his Almageſt, Sect. VI. hath collected their ſeveral Opinions into one Table, to which for brevity's ſake we refer the Reader; contenting ourſelves only to note that according to the ſaid Ricciolus,

The apparent Diameter of Venus in its greateſt Diſtance from the Earth, is 0′ 33″ 30‴, in its mean Diſtance 1′ 41″ 12″, in its leaſt 4′ 8″ 0‴.

Its true Diameter contains of the Earth's Diameters $1\frac{15}{100}$, its Circumference three Diameters of the Earth, and $\frac{3}{5}$, the Area of its greateſt Circle, ſquare Diameters of the Earth $1\frac{4}{100}$, its convex Superficies ſquare Diameters $4\frac{15}{100}$, the Body of Venus to that of the Earth $1\frac{1}{2}$; its Diſtance from the Earth, he makes to be, when greateſt 12919 Semidiameters of the Earth; its Mean-diſtance 7580, its leaſt 2241 of the ſame Semidiameters.

MARS.

Though of all the Reſt the moſt inobſervable Planet (as both Pliny and Kepler affirm) hath not yet been able to lie hid from the ſubtle Diſcoveries of aſtronomical Spies; who have obſerved, that he moves in a large Orbit about the Sun, as the Center of its Motion, in which Circle or Orbit he includes the Earth with the Moon, Mercury and Venus, and takes up a great Part of the Solar Region; and when in his Perigæum, becomes nearer to the Earth than the Sun, as may appear by his Parallax, at that time greater than the Sun's; and the notable Increaſe of his Light, by reaſon of which he is ſometimes taken for a Comet or new Star.

As to his Figure, it is without doubt (as the other Planets) Spherical; and is obſerved by Kepler (l. 6. Epit. Aſtr.) when in □ with the Sun, to be almoſt biſected or dichotomous, at other times between □ and ☍ to the Sun to be gibbous, and rarely perfectly round, as Rheita affirms. Hevelius denies that it can ever be ſeen horned. Fontana, in his Obſervations, repreſents it, as by him viewed in the Year 1636, in a round Figure with a black Spot in the Middle, which he conceives to be a Cavity, and not a riſing or ſwelling. Nicholaus Zucchius, as Ricciolus (in Aſtronom. Reform.) reports, beheld him in the Year 1640, between △ and □ with the Sun to be gibbous or boſſed without any ſuch Spot, perhaps by reaſon of his vertiginous Motion or Libration about his own Center, changing its Poſition. Daniel Bartolus in the Year 1644 (as he writes to Ricciolus) affirms, that Father Sirſalis, the Jeſuit at Naples, beheld him with an excellent Teleſcope to be almoſt round, with two Spots a little beneath the middle of his Globe. Ricciolus likewiſe, together with Grimaldus, in the Year 1651, on the 4th, 5th, and 6th of April, beheld that black Spot in him, which appeared to them as if compoſed of divers ſmaller ones; the ſame Phenomenon being by them afterwards often obſerved in the Years 1653, 1655, and 1657, which black or ruddy Macula or Spot Kircherus (in Itiner. Exſtat.) conceives to be a great Vorago or Gulf, of no leſs extent than all Africa. The ingenious Monſieur Hugens, in the Year 1656, obſerved a broad obſcure Zone or Belt, to ſhadow or obfuſcate half the Diſk of the ſaid Planet. From the ſeveral Phaſes before mentioned of his Dichotomy and Gibboſity, Aſtronomers argue his Light to be derived from the Sun, as that of the Moon; and Ricciolus is of Opinion that if he could be ſeen in ☌ with the Sun, we might diſcern him to be horned.

As to the Structure and Nature of his Globe, it is as the Reſt of the Planets, compoſed ex Solido et Liquido. The ſolid Parts by Kircherus (in Itiner. Extatic.) ſuppoſed to conſiſt of a fuliginous Subſtance, like that of Sulphur, Arſenick or Orpiment, hard, and incombuſtible, evaporating malignant and deſtructive Qualities, and ſweating out in great Plenty a Kind of bituminous Matter, not unlike to Naphtha. Its liquid Parts, he imagines, to conſiſt of a ſoft and clammy Subſtance, like to our melted Pitch mixt with Sulphur. He hath a vertiginous Motion about its own Center, which is compleated, according to Rheita, in the Space of 45 Hours, 6 Minutes. Its apparent Diameter, according to Ricciolus, being in its greateſt

Diſtance from the Earth 10″ 6‴, in its Mean-diſtance 22″, in its leaſt 1′ 32″.

Its true Diameter contains of the Earth's Diameter $\frac{52}{100}$ Parts, the Solidity of his Body, the Earth's Body $\frac{14}{100}$.

Its greateſt Diſtance from the Center of the Earth, being by the ſaid Ricciolus computed to be 21005 Semidiameters of the Earth, its mean Diſtance 11000, and its leaſt 2373, of the ſaid Semidiameters.

JUPITER.

One of the moſt noted and beneficent Planets, is carried in an Orbit above Mars, as is manifeſt in the mutual Conjunctions of thoſe Planets, at which time he is obſcured and hidden from our Sight by the Interpoſition of Mars, as the Sun is by that of the Moon's Body.

Rheita affirms that, he obſerved Jupiter to be inveſted round with a vapid Atmoſphere. And Leander Bandtius, Abbot of of Duniſburgh (as Ricciolus in Aſtron. Reform) reports in the Year 1643, obſerved the Edges or Margins of his Globe to be very rough and uneven, riſing with Tumours like Hills and Mountains; and diſcovered in his Body by the Help of an excellent Teleſcope, two ſmall Maculæ or Spots, and two great ones, like hollow Caverns, one round, the other Oval, equalling in Longitude the ſeventh Part of his Diameter, as the Scheme thereof tranſmitted by the ſaid Bandtius, from Flanders to Ricciolus, is ſaid to have repreſented the ſame. Hevelius likewiſe, in his Selenography (p. 44) affirms, that the Face of Jupiter is variegated with Spots in a Manner like that of the Moon, and rugged with uneven Swellings and Aſperities, as that is. But leaving theſe to further Diſcovery; we ſhall only take Notice of the more ordinary Phænomena, manifeſted by frequent Obſervations. And thoſe are:

[To be continued next Year.]

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